

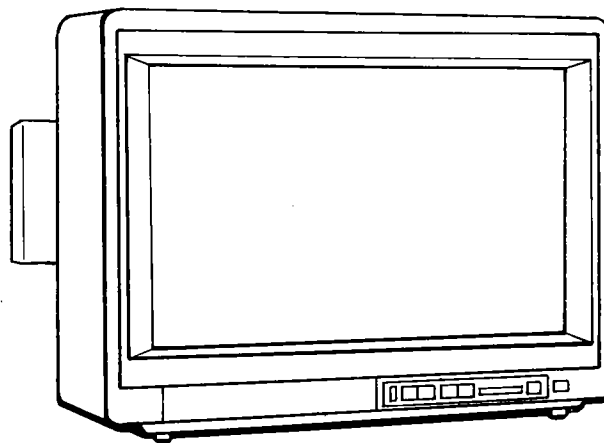
2527

# KV-2093R

## RM-735

# SERVICE MANUAL

*US Model*  
Chassis No. SCC-648V-A



## P3 CHASSIS

February, 1986

### SPECIFICATIONS

Television system  
Channel coverage

American TV standards

VHF: 2-13

UHF: 14-69

Cable TV: 1-125

Picture tube

Microblack Trinitron tube

**20-inch picture measured diagonally**

21-inch picture tube measured diagonally

Input

/L

jack, 408 mVrms (100% modulation), more than 47 k ohms

Output

video

phono jack, 1 Vp-p, 75 ohms, unbalanced, sync negative

Audio R/L

phono jack, 408 mVrms (100% modulation), more than 47 k ohms

Video

phono jack, 1 Vp-p, 75 ohms, unbalanced sync negative

Power requirements 120 V AC, 60 Hz

Power consumption 130 W (max.)

6 W (in standby condition)

Accessories supplied

Remote Commander RM-735

with 2 size AA batteries

Telescopic dipole antenna

Antenna connector

Optional accessories

Connecting cord RK-74A

VMC-2P3

Design and specifications are subject to change without notice.



# TRINITRON® COLOR TV

# SONY®



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### WARNING !!

AN ISOLATION TRANSFORMER SHOULD BE USED DURING ANY SERVICE TO AVOID POSSIBLE SHOCK HAZARD, BECAUSE OF LIVE CHASSIS. THE CHASSIS OF THIS RECEIVER IS DIRECTLY CONNECTED TO THE AC POWER LINE.

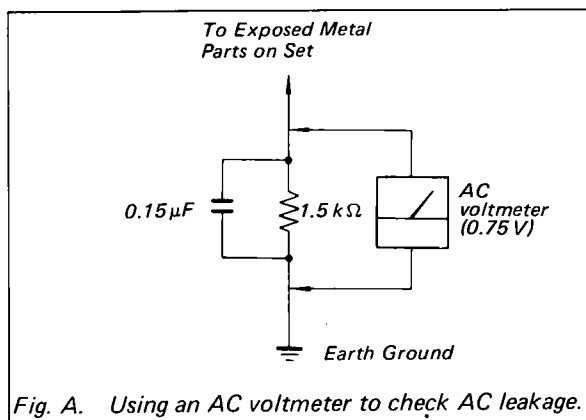
### SAFETY-RELATED COMPONENT WARNING !!

COMPONENTS IDENTIFIED BY SHADING AND MARK  ON THE SCHEMATIC DIAGRAMS, EXPLODED VIEWS AND IN THE PARTS LIST ARE CRITICAL TO SAFE OPERATION. REPLACE THESE COMPONENTS WITH SONY PARTS WHOSE PART NUMBERS APPEAR AS SHOWN IN THIS MANUAL OR IN SUPPLEMENTS PUBLISHED BY SONY. CIRCUIT ADJUSTMENTS THAT ARE CRITICAL TO SAFE OPERATION ARE IDENTIFIED IN THIS MANUAL. FOLLOW THESE PROCEDURES WHENEVER CRITICAL COMPONENTS ARE REPLACED OR IMPROPER OPERATION IS SUSPECTED.

## SAFETY CHECK-OUT

After correcting the original service problem, perform the following safety checks before releasing the set to the customer:

1. Check the area of your repair for unsoldered or poorly-soldered connections. Check the entire board surface for solder splashes and bridges.
2. Check the interboard wiring to ensure that no wires are "pinched" or contact high-wattage resistors.
3. Check that all control knobs, shields, covers, ground straps, and mounting hardware have been replaced. Be absolutely certain that you have replaced all the insulators.
4. Look for unauthorized replacement parts, particularly transistors, that were installed during a previous repair. Point them out to the customer and recommend their replacement.
5. Look for parts which, though functioning, show obvious signs of deterioration. Point them out to the customer and recommend their replacement.
6. Check the line cord for cracks and abrasion. Recommend the replacement of any such line cord to the customer.
7. Check the condition of the monopole antenna (if any).  
Make sure the end is not broken off, and has the plastic cap on it. Point out the danger of impalement on a broken antenna to the customer, and recommend the antenna's replacement.
8. Check the B+ and HV to see they are at the values specified. Make sure your instruments are accurate; be suspicious of your HV meter if sets always have low HV.
9. Check the antenna terminals, metal trim, "metallized" knobs, screws, and all other exposed metal parts for AC leakage. Check leakage as described below.



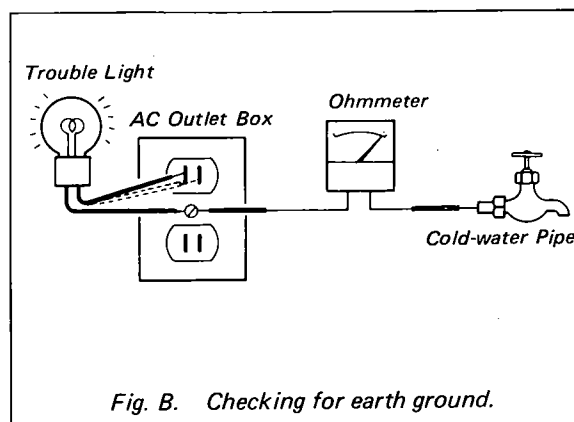
## LEAKAGE TEST

The AC leakage from any exposed metal part to earth ground and from all exposed metal parts to any exposed metal part having a return to chassis, must not exceed 0.5 mA (500 microamperes). Leakage current can be measured by any one of three methods.

1. A commercial leakage tester, such as the Simpson 229 or RCA WT-540A. Follow the manufacturers' instructions to use these instruments.
2. A battery-operated AC milliammeter. The Data Precision 245 digital multimeter is suitable for this job.
3. Measuring the voltage drop across a resistor by means of a VOM or battery-operated AC voltmeter. The "limit" indication is 0.75 V, so analog meters must have an accurate low-voltage scale. The Simpson 250 and Sanwa SH-63Trd are examples of a passive VOM that is suitable. Nearly all battery operated digital multimeters that have a 2 V AC range are suitable. (See Fig. A)

## HOW TO FIND A GOOD EARTH GROUND

A cold-water pipe is guaranteed earth ground; the cover-plate retaining screw on most AC outlet boxes is also at earth ground. If the retaining screw is to be used as your earth-ground, verify that it is at ground by measuring the resistance between it and a cold-water pipe with an ohmmeter. The reading should be zero ohms. If a cold-water pipe is not accessible, connect a 60-100 watts trouble light (not a neon lamp) between the hot side of the receptacle and the retaining screw. Try both slots, if necessary, to locate the hot side of the line, the lamp should light at normal brilliance if the screw is at ground potential. (See Fig. B)



## SECTION 1 GENERAL

### 1-1. LOCATION OF CONTROLS

For further details, refer to the page numbers next to each item.

#### Front

##### On-screen display indicates

- Channel numbers
- "MUTING" or "SLEEP" indications
- "VIDEO" mode
- "MAIN," "SAP" or "BOTH" modes
- "EXTA" mode
- TIMER/BLOCK settings

##### Bar display

Indicates picture or sound level setting.

Press to open the panel.

BRIGHT (brightness) control

SHARPNESS control

MTS (Multichannel TV Sound) button

AUTO STEREO selector

VIDEO EXT-AUDIO selector

POWER switch

STEREO indicator

TIMER indicator

VIDEO indicator

SLEEP indicator

Remote control detector

CHANNEL scan buttons

VOLUME buttons

TV/VIDEO button

COLOR control

HUE control

PICTURE buttons

ERASE button

ADD button

TIMER/BLOCK button

CABLE selector

#### Rear

VIDEO INPUT jack

AUDIO INPUT R/L jacks

AUX terminal

VIDEO OUTPUT jack

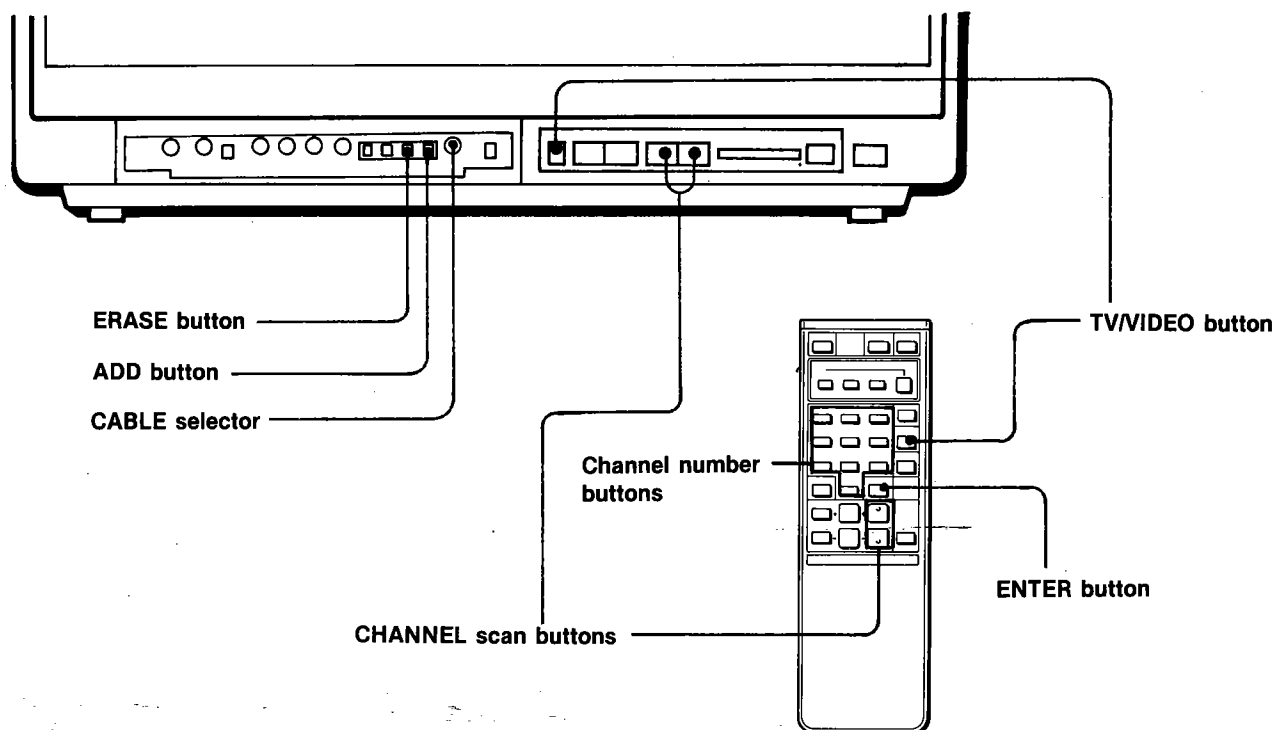
MONITOR OUT/TV OUT selector

AUDIO OUTPUT R/L jacks

TO CONVERTER terminal

VHF/UHF antenna terminal

## 1-2. PRESETTING CHANNELS



Receivable channels of your set are:

VHF: 2-13

UHF: 14-69

Cable TV: 1-125

By adding and erasing channels, you can preset your TV so that only the desired channels appear, in numerical sequence, when CH (CHANNEL) + / - are pressed.

**Preparation**

- 1 Turn on the TV.
- 2 On-screen "EXT-A" indication should be off.  
If not, set the EXT-AUDIO/VIDEO selector to VIDEO.  
On-screen "VIDEO" indication and the VIDEO indicator should be off.  
If not, press the TV/VIDEO button so that they disappear.
- 3 Set the CABLE ON/OFF selector according to the channel to be added or erased.  
For cable TV channels, set to ON.  
For VHF and UHF channels, set to OFF.

**ADDING CHANNELS**

- 1 Select the channel to be added by pressing the channel number buttons and ENTER button.

- 2 Press ADD.

A "+" indication will appear on the screen on the left of the channel number, indicating that the channel has been added.

Repeat steps 1 and 2 for other channels to be added.

**ERASING CHANNELS**

- 1 Select the channel to be erased.

- 2 Press ERASE.

A "-" indication will appear on the screen on the left of the channel number, indicating that the channel has been erased.

Repeat steps 1 and 2 for other channels to be erased.

To add erased channels again, follow the steps for adding channels.

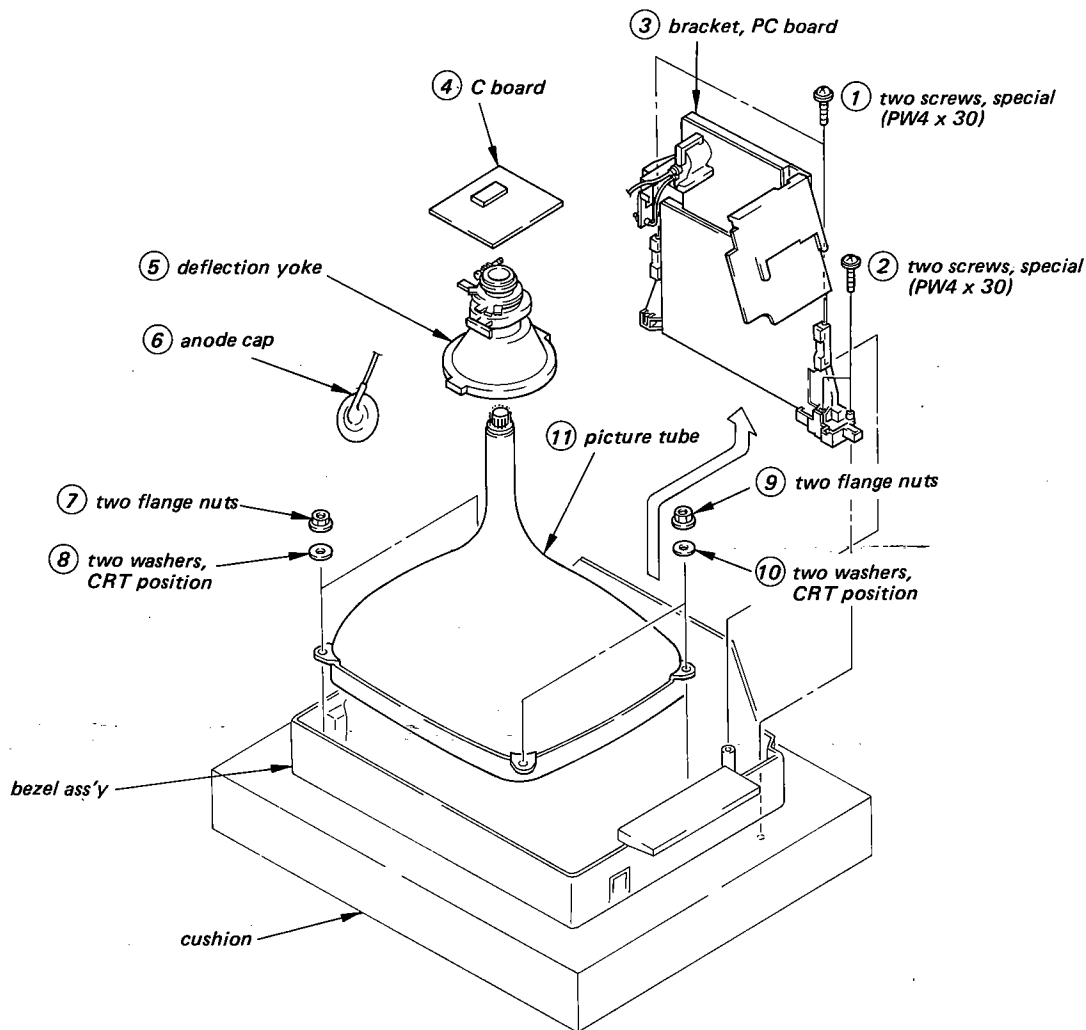
**Note**

If you erase a VHF or UHF channel, the cable TV channel with the same number will also be erased, and vice versa.

## SECTION 2 DISASSEMBLY

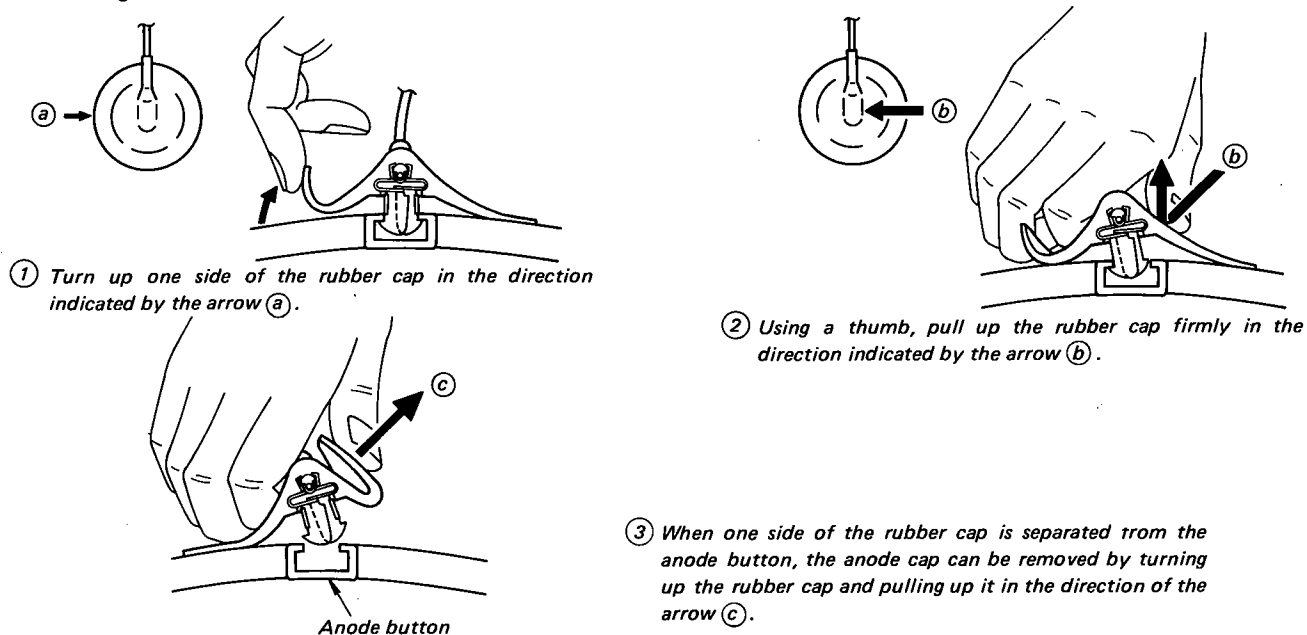
### 2-1. PICTURE TUBE REMOVAL

**Note:** Follow the disassembly procedure in the numerical order given.



### 2-2. ANODE CAP REMOVAL

#### • Removing Procedures



## SECTION 5

### EXPLODED VIEWS

## NOTE:

- Items with no part number and no description are not stocked because they are seldom required for routine service.
- The construction parts of an assembled part are indicated with a collation number in the remark column.

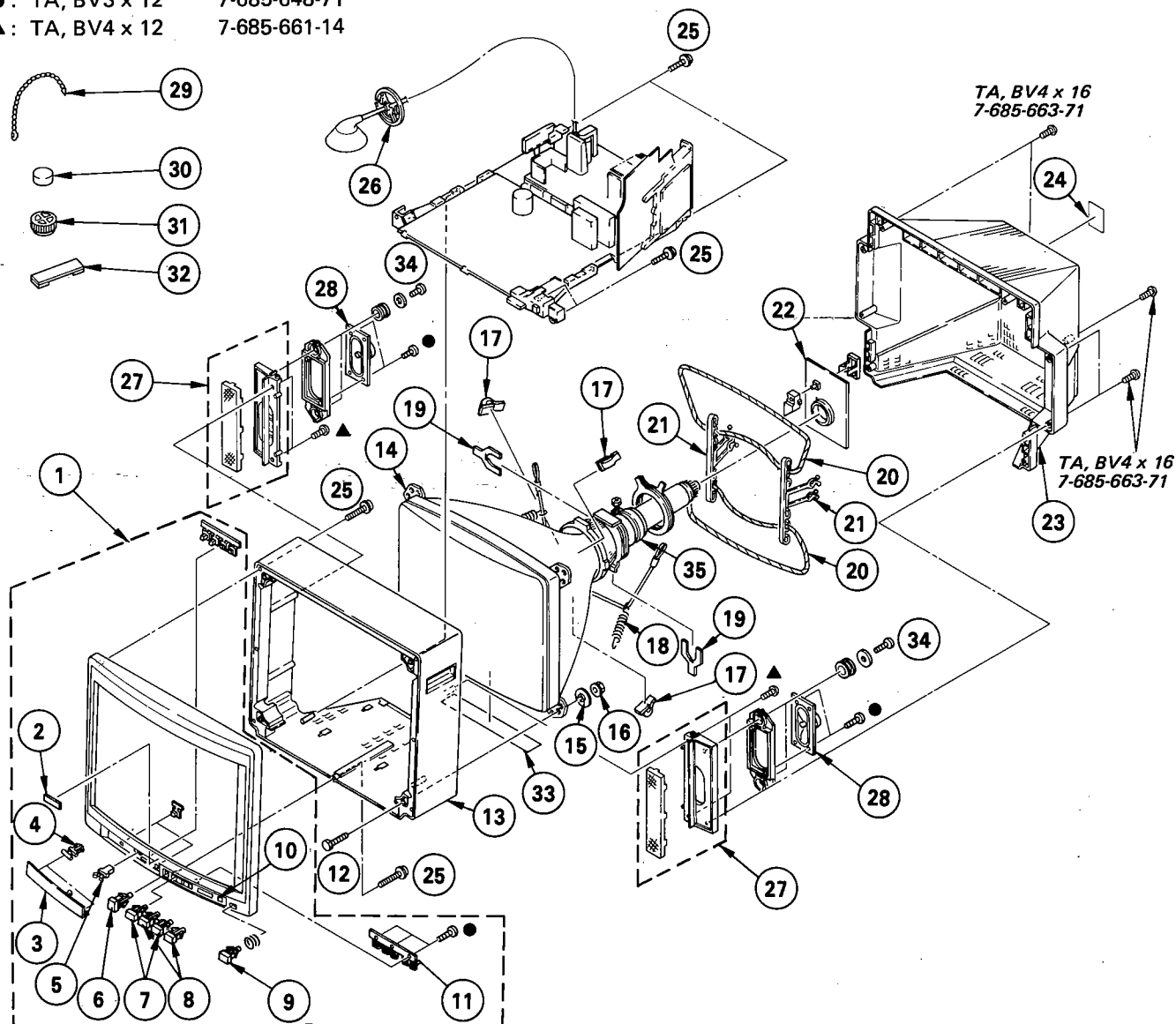
- As to the part numbered with E-, refer to the electrical parts list.
- Items marked "★" are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.

The components identified by shading and mark  $\Delta$  are critical for safety. Replace only with part number specified.

## 5-1. PICTURE TUBE

●: TA, BV3 x 12 7-685-648-71

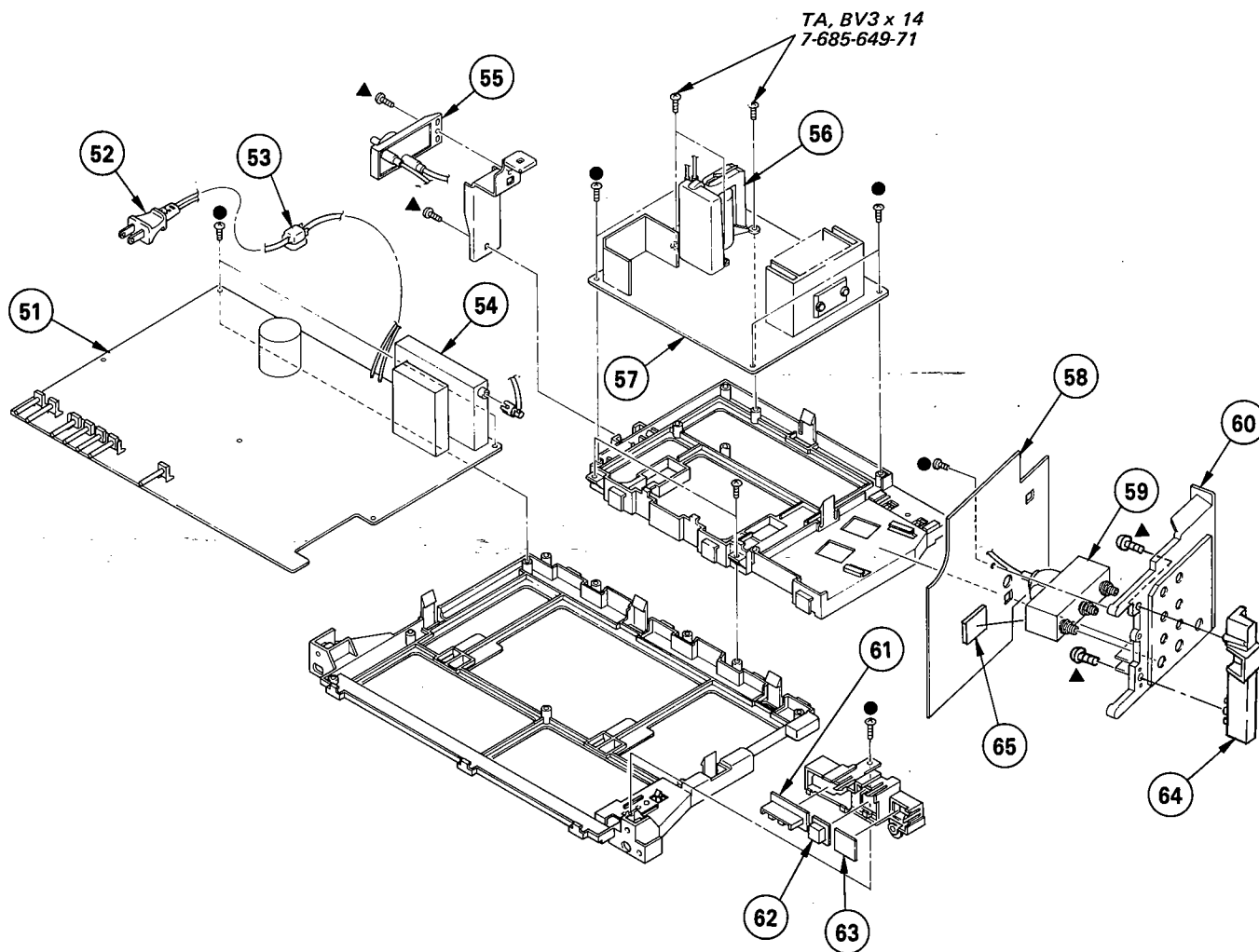
▲: TA, BV4 x 12 7-685-661-14



| No. | Part No.              | Description             | Remark | No. | Part No.              | Description                         | Remark |
|-----|-----------------------|-------------------------|--------|-----|-----------------------|-------------------------------------|--------|
| 1   | X-4379-104-1          | BEZEL ASSY              | 2-11   | 20  | $\Delta$ 1-426-227-23 | COIL, DEMAGNETIZATION               |        |
| 2   | 4-374-115-01          | EMBLEM, SONY            |        | 21  | *4-374-720-01         | BAND, COIL, DEGAUSS                 |        |
| 3   | 4-374-275-21          | DOOR, CONTROL           |        | 22  | *A-1330-667-A         | C BOARD, COMPLETE                   |        |
| 4   | 3-662-365-00          | SHAFT (S), DOOR         |        | 23  | 4-379-118-01          | COVER, REAR                         |        |
| 5   | 4-374-714-01          | CATCH, PUSH             |        | 24  | *4-379-105-01         | LABEL, MODEL NUMBER                 |        |
| 6   | 4-379-112-01          | BUTTON (D)              |        | 25  | 4-319-520-00          | SCREW, SPECIAL (+PW4X30)            |        |
| 7   | 4-379-111-01          | BUTTON (C)              |        | 26  | *4-369-234-01         | HOLDER, HV CABLE                    |        |
| 8   | 4-379-110-01          | BUTTON (B)              |        | 27  | X-4374-220-2          | PANEL ASSY, SP                      |        |
| 9   | X-4379-102-1          | BUTTON (A) ASSY         |        | 28  | 1-503-258-21          | SPEAKER                             |        |
| 10  | 4-379-114-01          | PLATE, TRANSPARENT      |        | 29  | 4-308-870-00          | CLIP, LEAD WIRE                     |        |
| 11  | *4-379-113-01         | HINGE (B), BUTTON       |        | 30  | 1-452-032-00          | MAGNET, DISK; 10MM $\phi$           |        |
| 12  | 3-703-025-12          | BOLT M5, HEXAGON-HEAD   |        | 31  | 1-452-094-00          | MAGNET, ROTATABLE DISK; 15MM $\phi$ |        |
| 13  | 4-379-117-01          | CABINET                 |        | 32  | X-4309-608-0          | PERMALLOY ASSY, CONVERGENCE         |        |
| 14  | $\Delta$ 8-736-951-05 | CRT (A51JKQ/OX)         |        | 33  | 4-370-595-01          | CLOTH, BLOTING                      |        |
| 15  | 4-373-615-02          | WASHER, CRT POSITIONING |        | 34  | 4-314-843-00          | SCREW, TAPPING, +4X12               |        |
| 16  | 4-306-034-00          | FLANGE NUT, (B) 5MM     |        | 35  | $\Delta$ 1-451-268-11 | DEFLECTION YOKE (SY-153C)           |        |
| 17  | 3-703-961-01          | SPACER, DY              |        |     |                       |                                     |        |
| 18  | *4-375-394-01         | SPRING, TENSION         |        |     |                       |                                     |        |
| 19  | 1-452-277-00          | MAGNET, BMC             |        |     |                       |                                     |        |

## 5-2. CHASSIS

- : TA, BV3 x 12      7-685-648-71  
▲: TA, BV4 x 12      7-685-661-14



| No. | Part No.       | Description                 |
|-----|----------------|-----------------------------|
| 51  | *A-1296-084-A  | A BOARD, COMPLETE           |
| 52  | ▲.1-557-269-11 | CORD, POWER                 |
| 53  | ▲.4-022-115-01 | HOLDER, AC CORD             |
| 54  | ▲.1-463-603-11 | TUNER, ET (BTP-201)         |
| 55  | ▲.1-230-786-12 | RESISTER ASSY, HIGH-VOLTAGE |
| 56  | ▲.1-439-351-21 | TRANSFORMER ASSY, FLYBACK   |
| 57  | *A-1345-582-A  | D BOARD, COMPELTE           |

| Remark | No. | Part No.       | Description                  | Remark |
|--------|-----|----------------|------------------------------|--------|
|        | 58  | *A-1389-735-A  | U1 BOARD, COMPLETE           |        |
|        | 59  | ▲.1-417-121-21 | SELECTOR, ANTENNA            |        |
|        | 60  | 1-536-973-11   | TERMINAL BOARD, INPUT/OUTPUT |        |
|        | 61  | *1-617-431-11  | T1 BOARD                     |        |
|        | 62  | *1-617-432-11  | T2 BOARD                     |        |
|        | 63  | *1-617-511-11  | U3 BOARD                     |        |
|        | 64  | *4-379-852-01  | BRACKET, TERMINAL BOARD      |        |
|        | 65  | *1-617-510-11  | U2 BOARD                     |        |

The components identified by shading and mark ▲ are critical for safety. Replace only with part number specified.

# SECTION 6

## ELECTRICAL PARTS LIST

A

## NOTE:

The components identified by shading and mark **A** are critical for safety. Replace only with part number specified.

• Items marked "★" are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.

When indicating parts by reference number, please include the board name.

- All variable and adjustable resistors have characteristic curve B, unless otherwise noted.
  - The components identified by **A** in this manual have been carefully factory-selected for each set in order to satisfy regulations regarding X-ray radiation. Select the resistance value according to SAFETY RELATED ADJUSTMENT.
- CAPACITORS**  
MF :  $\mu$ F, PF :  $\mu$ P
- RESISTORS**  
• All resistors are in ohms  
• F : nonflammable
- COILS**  
• MMH : mH, UH :  $\mu$ H

| Ref.No. | Part No.      | Description                   | Remark   | Ref.No. | Part No.     | Description        | Remark |
|---------|---------------|-------------------------------|----------|---------|--------------|--------------------|--------|
|         | *A-1296-084-A | A BOARD, COMPLETE<br>*****    |          | C132    | 1-108-616-91 | MYLAR 0.0015MF 10% | 100V   |
|         | 1-464-597-11  | IF BLOCK (IFA-450)            |          | C133    | 1-123-380-00 | ELECT 1MF 20%      | 50V    |
|         |               | <u>CONNECTOR</u>              |          | C134    | 1-123-369-00 | ELECT 4.7MF 20%    | 50V    |
| A1      | *1-564-441-11 | PLUG, CONNECTOR (2.5MM) 5P    |          | C143    | 1-124-002-11 | ELECT 1MF 20%      | 50V    |
| A2      | *1-564-440-11 | PLUG, CONNECTOR (2.5MM) 4P    |          | C144    | 1-124-002-11 | ELECT 1MF 20%      | 50V    |
| A5      | *1-564-353-00 | PLUG, CONNECTOR (2.5MM) 2P    |          | C170    | 1-123-380-00 | ELECT 1MF 20%      | 50V    |
| A6      | *1-508-765-00 | 3P PLUG (M)                   |          | C171    | 1-101-004-00 | CERAMIC 0.01MF     | 50V    |
| A7      | *1-564-442-11 | PLUG, CONNECTOR (2.5MM) 6P    |          | C172    | 1-102-125-00 | CERAMIC 0.0047MF   | 10%    |
| A8      | *1-564-442-11 | PLUG, CONNECTOR (2.5MM) 6P    |          | C173    | 1-123-318-00 | ELECT 33MF         | 20%    |
| A9      | *1-564-353-00 | PLUG, CONNECTOR (2.5MM) 2P    |          | C190    | 1-123-380-00 | ELECT 1MF          | 20%    |
| A10     | *1-508-767-00 | 5P PLUG                       |          | C191    | 1-108-618-91 | MYLAR 0.0022MF     | 10%    |
| A11     | *1-564-442-11 | PLUG, CONNECTOR (2.5MM) 6P    |          | C201    | 1-102-530-00 | CERAMIC 120PF      | 5%     |
| A12     | *1-564-440-11 | PLUG, CONNECTOR (2.5MM) 4P    |          | C203    | 1-123-332-00 | ELECT 47MF         | 20%    |
| A14     | *1-560-290-00 | PLUG, CONNECTOR (2.5MM PITCH) |          | C204    | 1-123-380-00 | ELECT 1MF          | 20%    |
| A15     | *1-560-123-00 | PLUG, CONNECTOR (2.5MM PITCH) |          | C205    | 1-102-945-00 | CERAMIC 8PF        | 1PF    |
| A18     | *1-564-353-00 | PLUG, CONNECTOR (2.5MM) 2P    |          | C224    | 1-102-953-00 | CERAMIC 18PF       | 5%     |
| A20     | *1-560-124-00 | PLUG, CONNECTOR (2.5MM PITCH) |          | C241    | 1-101-003-00 | CERAMIC 0.0047MF   | 50V    |
|         |               | <u>CAPACITOR</u>              |          | C242    | 1-101-003-00 | CERAMIC 0.0047MF   | 50V    |
| C001    | 1-101-004-00  | CERAMIC 0.01MF                | 50V      | C260    | 1-123-356-00 | ELECT 10MF         | 20%    |
| C100    | 1-123-380-00  | ELECT 1MF                     | 20% 50V  | C301    | 1-123-330-00 | ELECT 22MF         | 20%    |
| C101    | 1-101-880-00  | CERAMIC 47PF                  | 5% 50V   | C302    | 1-123-330-00 | ELECT 22MF         | 20%    |
| C102    | 1-123-333-00  | ELECT 100MF                   | 20% 16V  | C303    | 1-123-333-00 | ELECT 100MF        | 20%    |
| C103    | 1-123-324-00  | ELECT 1000MF                  | 20% 16V  | C304    | 1-123-318-00 | ELECT 33MF         | 20%    |
| C104    | 1-123-356-00  | ELECT 10MF                    | 20% 50V  | C306    | 1-102-978-00 | CERAMIC 220PF      | 5%     |
| C105    | 1-123-330-00  | ELECT 22MF                    | 20% 25V  | C307    | 1-123-381-00 | ELECT 2.2MF        | 20%    |
| C106    | 1-123-381-00  | ELECT 2.2MF                   | 20% 50V  | C308    | 1-123-369-00 | ELECT 4.7MF        | 20%    |
| C107    | 1-123-306-00  | ELECT 47MF                    | 20% 10V  | C309    | 1-123-330-00 | ELECT 22MF         | 20%    |
| C108    | 1-101-006-00  | CERAMIC 0.047MF               | 50V      | C310    | 1-123-356-00 | ELECT 10MF         | 20%    |
| C109    | 1-102-973-00  | CERAMIC 100PF                 | 5% 50V   | C311    | 1-102-978-00 | CERAMIC 220PF      | 5%     |
| C110    | 1-123-356-00  | ELECT 10MF                    | 20% 50V  | C312    | 1-102-951-00 | CERAMIC 15PF       | 5%     |
| C111    | 1-102-973-00  | CERAMIC 100PF                 | 5% 50V   | C313    | 1-101-884-00 | CERAMIC 56PF       | 5%     |
| C112    | 1-102-976-00  | CERAMIC 180PF                 | 5% 50V   | C314    | 1-102-121-00 | CERAMIC 0.0022MF   | 10%    |
| C113    | 1-102-973-00  | CERAMIC 100PF                 | 5% 50V   | C315    | 1-123-356-00 | ELECT 10MF         | 20%    |
| C114    | 1-102-978-00  | CERAMIC 220PF                 | 5% 50V   | C316    | 1-101-006-00 | CERAMIC 0.047MF    | 50V    |
| C115    | 1-102-125-00  | CERAMIC 0.0047MF              | 10% 50V  | C317    | 1-136-169-00 | FILM 0.22MF        | 5%     |
| C116    | 1-124-444-00  | ELECT 220MF                   | 20% 10V  | C320    | 1-102-074-00 | CERAMIC 0.001MF    | 10%    |
| C117    | 1-106-220-00  | MYLAR 0.1MF                   | 10% 100V | C330    | 1-123-318-00 | ELECT 33MF         | 20%    |
| C119    | 1-102-074-00  | CERAMIC 0.001MF               | 10% 50V  | C345    | 1-123-318-00 | ELECT 33MF         | 20%    |
| C120    | 1-108-634-81  | MYLAR 0.047MF                 | 10% 100V | C350    | 1-102-525-00 | CERAMIC 68PF       | 5%     |
| C121    | 1-101-880-00  | CERAMIC 47PF                  | 5% 50V   | C351    | 1-106-214-00 | MYLAR 0.056MF      | 10%    |
| C122    | 1-101-884-00  | CERAMIC 56PF                  | 5% 50V   | C352    | 1-123-380-00 | ELECT 1MF          | 20%    |
| C123    | 1-102-074-00  | CERAMIC 0.001MF               | 10% 50V  | C353    | 1-102-112-00 | CERAMIC 330PF      | 10%    |
| C124    | 1-123-318-00  | ELECT 33MF                    | 20% 16V  | C354    | 1-124-272-00 | ELECT 2.2MF        | 20%    |
| C125    | 1-102-976-00  | CERAMIC 180PF                 | 5% 50V   | C355    | 1-123-380-00 | ELECT 1MF          | 20%    |
| C126    | 1-102-976-00  | CERAMIC 180PF                 | 5% 50V   | C357    | 1-101-880-00 | CERAMIC 47PF       | 5%     |
| C127    | 1-123-369-00  | ELECT 4.7MF                   | 20% 50V  | C358    | 1-123-333-00 | ELECT 100MF        | 20%    |
| C129    | 1-101-006-00  | CERAMIC 0.047MF               | 50V      | C360    | 1-101-880-00 | CERAMIC 47PF       | 5%     |
| C130    | 1-119-363-00  | ELECT 4.7MF                   | 25V      | C420    | 1-123-323-00 | ELECT 470MF        | 20%    |
| C131    | 1-123-380-00  | ELECT 1MF                     | 20% 50V  | C501    | 1-123-333-00 | ELECT 100MF        | 20%    |
|         |               |                               |          | C502    | 1-123-356-00 | ELECT 10MF         | 20%    |
|         |               |                               |          | C505    | 1-123-318-00 | ELECT 33MF         | 20%    |

A

| Ref.No. | Part No.     | Description         | Remark   | Ref.No. | Part No.     | Description    | Remark   |
|---------|--------------|---------------------|----------|---------|--------------|----------------|----------|
| C506    | 1-123-333-00 | ELECT 100MF         | 20% 16V  | C832    | 1-106-180-00 | MYLAR 0.0022MF | 10% 50V  |
| C507    | 1-108-622-91 | MYLAR 0.0047MF      | 10% 100V | C833    | 1-123-356-00 | ELECT 10MF     | 20% 50V  |
| C508    | 1-123-319-00 | ELECT 47MF          | 20% 16V  | C834    | 1-123-321-00 | ELECT 220MF    | 20% 16V  |
| C509    | 1-136-173-00 | FILM 0.47MF         | 5% 50V   | C835    | 1-123-357-00 | ELECT 22MF     | 20% 35V  |
| C510    | 1-102-112-00 | CERAMIC 330PF       | 10% 50V  | C837    | 1-123-357-00 | ELECT 22MF     | 20% 35V  |
| C511    | 1-123-356-00 | ELECT 10MF          | 20% 50V  | C838    | 1-123-333-00 | ELECT 100MF    | 20% 16V  |
| C512    | 1-131-373-00 | TANTALUM 22MF       | 10% 16V  | C841    | 1-123-384-00 | ELECT 10MF     | 20% 100V |
| C513    | 1-108-614-91 | MYLAR 0.001MF       | 10% 100V | C842    | 1-123-384-00 | ELECT 10MF     | 20% 100V |
| C514    | 1-123-333-00 | ELECT 100MF         | 20% 16V  | C843    | 1-123-381-00 | ELECT 2.2MF    | 20% 100V |
| C517    | 1-123-332-00 | ELECT 47MF          | 20% 16V  | C844    | 1-123-930-00 | ELECT 2.2MF    | 20% 160V |
| C532    | 1-102-125-00 | CERAMIC 0.0047MF    | 10% 50V  | C845    | 1-123-381-00 | ELECT 2.2MF    | 20% 100V |
| C536    | 1-123-356-00 | ELECT 10MF          | 20% 50V  | C848    | 1-106-220-00 | MYLAR 0.1MF    | 10% 100V |
| C549    | 1-123-356-00 | ELECT 10MF          | 20% 50V  | C849    | 1-123-930-00 | ELECT 2.2MF    | 20% 160V |
| C557    | 1-123-357-00 | ELECT 22MF          | 20% 50V  | C850    | 1-106-220-00 | MYLAR 0.1MF    | 10% 100V |
| C571    | 1-124-648-00 | ELECT 4.7MF         | 20% 35V  | C870    | 1-123-369-00 | ELECT 4.7MF    | 20% 50V  |
| C601    | 1-130-845-51 | FILM 0.22MF         | 20% 125V | C875    | 1-123-369-00 | ELECT 4.7MF    | 20% 50V  |
| C602    | 1-125-215-00 | ELECT (BLOCK) 560MF | 200V     | C899    | 1-123-323-00 | ELECT 470MF    | 20% 16V  |
| C603    | 1-161-830-00 | CERAMIC 0.0047MF    | 500V     |         |              |                |          |
| C604    | 1-161-830-00 | CERAMIC 0.0047MF    | 500V     |         |              |                |          |
| C605    | 1-123-948-00 | ELECT 22MF          | 20% 250V |         |              |                |          |
| C606    | 1-123-308-00 | ELECT 220MF         | 20% 10V  |         |              |                |          |
| C608    | 1-123-934-00 | ELECT 22MF          | 20% 160V |         |              |                |          |
| C801    | 1-131-368-00 | TANTALUM 3.3MF      | 10% 16V  |         |              |                |          |
| C802    | 1-123-382-00 | ELECT 3.3MF         | 20% 50V  |         |              |                |          |
| C803    | 1-131-371-00 | TANTALUM 10MF       | 10% 16V  |         |              |                |          |
| C804    | 1-123-381-00 | ELECT 2.2MF         | 20% 50V  |         |              |                |          |
| C805    | 1-123-330-00 | ELECT 22MF          | 20% 25V  |         |              |                |          |
| C806    | 1-123-380-00 | ELECT 1MF           | 20% 50V  |         |              |                |          |
| C807    | 1-123-356-00 | ELECT 10MF          | 20% 50V  |         |              |                |          |
| C808    | 1-108-603-00 | MYLAR 0.1MF         | 5% 50V   |         |              |                |          |
| C809    | 1-108-587-00 | MYLAR 0.022MF       | 5% 50V   |         |              |                |          |
| C810    | 1-123-369-00 | ELECT 4.7MF         | 20% 50V  |         |              |                |          |
| C811    | 1-108-630-91 | MYLAR 0.022MF       | 10% 100V |         |              |                |          |
| C812    | 1-106-196-00 | MYLAR 0.01MF        | 10% 100V |         |              |                |          |
| C813    | 1-123-356-00 | ELECT 10MF          | 20% 50V  |         |              |                |          |
| C814    | 1-123-356-00 | ELECT 10MF          | 20% 50V  |         |              |                |          |
| C815    | 1-123-369-00 | ELECT 4.7MF         | 20% 50V  |         |              |                |          |
| C816    | 1-123-356-00 | ELECT 10MF          | 20% 50V  |         |              |                |          |
| C817    | 1-123-356-00 | ELECT 10MF          | 20% 50V  |         |              |                |          |
| C818    | 1-123-369-00 | ELECT 4.7MF         | 20% 50V  |         |              |                |          |
| C819    | 1-130-309-00 | FILM 0.033MF        | 5% 100V  |         |              |                |          |
| C820    | 1-123-356-00 | ELECT 10MF          | 20% 50V  |         |              |                |          |
| C821    | 1-130-279-00 | FILM 0.0018MF       | 5% 100V  |         |              |                |          |
| C822    | 1-123-380-00 | ELECT 1MF           | 20% 50V  |         |              |                |          |
| C823    | 1-123-356-00 | ELECT 10MF          | 20% 50V  |         |              |                |          |
| C824    | 1-102-125-00 | CERAMIC 0.0047MF    | 10% 50V  |         |              |                |          |
| C825    | 1-123-356-00 | ELECT 10MF          | 20% 50V  |         |              |                |          |
| C826    | 1-123-323-00 | ELECT 470MF         | 20% 16V  |         |              |                |          |
| C827    | 1-123-356-00 | ELECT 10MF          | 20% 50V  |         |              |                |          |
| C828    | 1-108-622-91 | MYLAR 0.0047MF      | 10% 100V |         |              |                |          |
| C829    | 1-123-356-00 | ELECT 10MF          | 20% 50V  |         |              |                |          |
| C830    | 1-123-380-00 | ELECT 1MF           | 20% 50V  |         |              |                |          |
| C831    | 1-124-284-00 | ELECT 10MF          | 20% 16V  |         |              |                |          |

The components identified by shading and mark **A** are critical for safety. Replace only with part number specified.

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| Ref.No.           | Part No.       | Description                 | Remark | Ref.No.         | Part No.     | Description           | Remark |
|-------------------|----------------|-----------------------------|--------|-----------------|--------------|-----------------------|--------|
| <u>DELAY LINE</u> |                |                             |        |                 |              |                       |        |
| DL351             | 1-415-470-11   | DELAY LINE (1H)             |        | Q110            | 8-729-178-54 | TRANSISTOR 2SC2785    |        |
| <u>FUSE</u>       |                |                             |        | Q111            | 8-729-178-54 | TRANSISTOR 2SC2785    |        |
| F601              | △ 1-532-509-11 | FUSE, GLASS TUBE 6.3A/125V  |        | Q190            | 8-729-117-54 | TRANSISTOR 2SA1175    |        |
|                   | 1-533-190-11   | CLIP, FUSE; F601            |        | Q202            | 8-729-117-54 | TRANSISTOR 2SA1175    |        |
| F602              | △ 1-532-741-11 | FUSE, GLASS TUBE 1.25A/125V |        | Q203            | 8-729-178-54 | TRANSISTOR 2SC2785    |        |
|                   | 1-533-189-11   | HOLDER, FUSE; F602          |        | Q204            | 8-729-178-54 | TRANSISTOR 2SC2785    |        |
| <u>IC</u>         |                |                             |        | Q205            | 8-729-178-54 | TRANSISTOR 2SC2785    |        |
| IC101             | 8-759-923-41   | IC M888505-403N             |        | Q206            | 8-729-178-54 | TRANSISTOR 2SC2785    |        |
| IC102             | 8-759-105-59   | IC UPD6251C                 |        | Q207            | 8-729-178-54 | TRANSISTOR 2SC2785    |        |
| IC103             | 8-759-909-50   | IC CX-7958                  |        | Q301            | 8-729-117-54 | TRANSISTOR 2SA1175    |        |
| IC104             | 8-759-104-05   | IC UPD6325C                 |        | Q302            | 8-729-178-54 | TRANSISTOR 2SC2785    |        |
| IC301             | 8-752-019-30   | IC CX20193                  |        | Q304            | 8-729-117-54 | TRANSISTOR 2SA1175    |        |
| IC810             | 8-752-011-20   | IC CX20112                  |        | Q305            | 8-729-178-54 | TRANSISTOR 2SC2785    |        |
| IC811             | 8-759-900-70   | IC MB3110                   |        | Q306            | 8-729-117-54 | TRANSISTOR 2SA1175    |        |
| IC812             | 8-752-030-26   | IC CXA1011P                 |        | Q348            | 8-729-178-54 | TRANSISTOR 2SC2785    |        |
| IC813             | △ 8-749-900-15 | IC SI-4102                  |        | Q350            | 8-729-178-54 | TRANSISTOR 2SC2785    |        |
| IC814             | △ 8-749-900-15 | IC SI-4102                  |        | Q351            | 8-729-117-54 | TRANSISTOR 2SA1175    |        |
| <u>COIL</u>       |                |                             |        | Q352            | 8-729-117-54 | TRANSISTOR 2SA1175    |        |
| L101              | 1-408-405-00   | MICRO INDUCTOR 4.7UH        |        | Q353            | 8-729-178-54 | TRANSISTOR 2SC2785    |        |
| L102              | 1-408-420-00   | MICRO INDUCTOR 82UH         |        | Q354            | 8-729-178-54 | TRANSISTOR 2SC2785    |        |
| L103              | 1-404-538-11   | COIL                        |        | Q355            | 8-729-178-54 | TRANSISTOR 2SC2785    |        |
| L104              | 1-407-717-00   | MICRO INDUCTOR 1MMH         |        | Q356            | 8-729-178-54 | TRANSISTOR 2SC2785    |        |
| L105              | 1-408-437-31   | MICRO INDUCTOR 3.9UH        |        | Q357            | 8-729-178-54 | TRANSISTOR 2SC2785    |        |
| L106              | 1-408-437-31   | MICRO INDUCTOR 3.9UH        |        | Q358            | 8-729-178-54 | TRANSISTOR 2SC2785    |        |
| L107              | 1-408-444-31   | MICRO INDUCTOR 15UH         |        | Q359            | 8-729-178-54 | TRANSISTOR 2SC2785    |        |
| L108              | 1-408-444-31   | MICRO INDUCTOR 15UH         |        | Q360            | 8-729-117-54 | TRANSISTOR 2SA1175    |        |
| L109              | 1-408-437-31   | MICRO INDUCTOR 3.9UH        |        | Q361            | 8-729-600-12 | TRANSISTOR 2SK108     |        |
| L200              | 1-408-441-31   | MICRO INDUCTOR 8.2UH        |        | Q501            | 8-729-201-78 | TRANSISTOR 2SD1406    |        |
| L201              | 1-408-409-00   | MICRO INDUCTOR 10UH         |        | Q502            | 8-729-178-54 | TRANSISTOR 2SC2785    |        |
| L202              | 1-408-421-00   | MICRO INDUCTOR 100UH        |        | Q503            | 8-729-177-43 | TRANSISTOR 2SD774     |        |
| L204              | 1-408-415-00   | MICRO INDUCTOR 33UH         |        | Q504            | 8-729-178-54 | TRANSISTOR 2SC2785    |        |
| L303              | 1-408-417-00   | MICRO INDUCTOR 47UH         |        | Q505            | 8-729-178-54 | TRANSISTOR 2SC2785    |        |
| L350              | 1-408-424-00   | MICRO INDUCTOR 180UH        |        | Q601            | 8-729-255-12 | TRANSISTOR 2SC2551    |        |
| L351              | 1-404-607-11   | COIL                        |        | Q804            | 8-729-117-54 | TRANSISTOR 2SA1175    |        |
| L352              | 1-408-414-00   | MICRO INDUCTOR 27UH         |        | Q805            | 8-729-178-54 | TRANSISTOR 2SC2785    |        |
| L353              | 1-408-412-00   | MICRO INDUCTOR 18UH         |        | Q810            | 8-729-378-84 | TRANSISTOR 2SD788     |        |
| L601              | 1-408-225-00   | MICRO INDUCTOR 3.3UH        |        | Q831            | 8-729-178-54 | TRANSISTOR 2SC2785    |        |
| L602              | 1-408-225-00   | MICRO INDUCTOR 3.3UH        |        | <u>RESISTOR</u> |              |                       |        |
| L603              | 1-408-398-00   | MICRO INDUCTOR 1.2UH        |        | R100            | 1-249-437-11 | CARBON 47K 5% 1/6W    |        |
| L801              | 1-408-242-00   | MICRO INDUCTOR 10MMH        |        | R101            | 1-215-898-11 | METAL OXIDE 10K 5% 2W | F      |
| <u>TRANSISTOR</u> |                |                             |        | R102            | 1-247-713-11 | CARBON 1K 5% 1/4W     |        |
| Q101              | 8-729-178-54   | TRANSISTOR 2SC2785          |        | R103            | 1-247-149-00 | CARBON 5.6K 5% 1/4W   |        |
| Q102              | 8-729-178-54   | TRANSISTOR 2SC2785          |        | R104            | 1-249-433-11 | CARBON 22K 5% 1/6W    |        |
| Q104              | 8-729-178-54   | TRANSISTOR 2SC2785          |        | R105            | 1-247-829-00 | CARBON 820 5% 1/6W    |        |
| Q106              | 8-729-178-54   | TRANSISTOR 2SC2785          |        | R106            | 1-247-829-00 | CARBON 820 5% 1/6W    |        |
| Q107              | 8-729-178-54   | TRANSISTOR 2SC2785          |        | R108            | 1-249-437-11 | CARBON 47K 5% 1/6W    |        |
| Q109              | 8-729-178-54   | TRANSISTOR 2SC2785          |        | R109            | 1-247-831-00 | CARBON 1K 5% 1/6W     |        |
|                   |                |                             |        | R110            | 1-249-434-11 | CARBON 27K 5% 1/6W    |        |
|                   |                |                             |        | R113            | 1-247-717-11 | CARBON 2.2K 5% 1/4W   |        |
|                   |                |                             |        | R114            | 1-247-717-11 | CARBON 2.2K 5% 1/4W   |        |
|                   |                |                             |        | R115            | 1-247-717-11 | CARBON 2.2K 5% 1/4W   |        |
|                   |                |                             |        | R116            | 1-247-717-11 | CARBON 2.2K 5% 1/4W   |        |

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| Ref.No. | Part No.     | Description | Remark       | Ref.No. | Part No.     | Description | Remark       |
|---------|--------------|-------------|--------------|---------|--------------|-------------|--------------|
| R117    | 1-247-811-00 | CARBON      | 150 5% 1/6W  | R174    | 1-247-153-00 | CARBON      | 8.2K 5% 1/4W |
| R118    | 1-247-859-00 | CARBON      | 15K 5% 1/6W  | R175    | 1-249-421-11 | CARBON      | 2.2K 5% 1/6W |
| R119    | 1-249-421-11 | CARBON      | 2.2K 5% 1/6W | R176    | 1-249-421-11 | CARBON      | 2.2K 5% 1/6W |
| R120    | 1-249-421-11 | CARBON      | 2.2K 5% 1/6W | R177    | 1-249-425-11 | CARBON      | 4.7K 5% 1/6W |
| R121    | 1-249-421-11 | CARBON      | 2.2K 5% 1/6W | R179    | 1-247-831-00 | CARBON      | 1K 5% 1/6W   |
| R122    | 1-249-421-11 | CARBON      | 2.2K 5% 1/6W | R180    | 1-247-815-00 | CARBON      | 220 5% 1/6W  |
| R123    | 1-249-429-11 | CARBON      | 10K 5% 1/6W  | R181    | 1-247-815-00 | CARBON      | 220 5% 1/6W  |
| R124    | 1-249-421-11 | CARBON      | 2.2K 5% 1/6W | R182    | 1-247-717-11 | CARBON      | 2.2K 5% 1/4W |
| R125    | 1-249-421-11 | CARBON      | 2.2K 5% 1/6W | R183    | 1-249-419-11 | CARBON      | 1.5K 5% 1/6W |
| R126    | 1-249-421-11 | CARBON      | 2.2K 5% 1/6W | R184    | 1-249-433-11 | CARBON      | 22K 5% 1/6W  |
| R127    | 1-249-421-11 | CARBON      | 2.2K 5% 1/6W | R185    | 1-249-419-11 | CARBON      | 1.5K 5% 1/6W |
| R128    | 1-247-807-00 | CARBON      | 100 5% 1/6W  | R186    | 1-249-421-11 | CARBON      | 2.2K 5% 1/6W |
| R129    | 1-249-429-11 | CARBON      | 10K 5% 1/6W  | R187    | 1-247-717-11 | CARBON      | 2.2K 5% 1/4W |
| R131    | 1-249-434-11 | CARBON      | 27K 5% 1/6W  | R188    | 1-247-895-00 | CARBON      | 470K 5% 1/6W |
| R132    | 1-249-414-11 | CARBON      | 560 5% 1/6W  | R189    | 1-247-879-00 | CARBON      | 100K 5% 1/6W |
| R133    | 1-249-414-11 | CARBON      | 560 5% 1/6W  | R190    | 1-247-895-00 | CARBON      | 470K 5% 1/6W |
| R134    | 1-249-419-11 | CARBON      | 1.5K 5% 1/6W | R191    | 1-247-879-00 | CARBON      | 100K 5% 1/6W |
| R135    | 1-247-821-00 | CARBON      | 390 5% 1/6W  | R192    | 1-247-133-00 | CARBON      | 1.2K 5% 1/4W |
| R137    | 1-249-419-11 | CARBON      | 1.5K 5% 1/6W | R193    | 1-244-887-51 | CARBON      | 3.9K 5% 1/2W |
| R138    | 1-247-831-00 | CARBON      | 1K 5% 1/6W   | R194    | 1-249-421-11 | CARBON      | 2.2K 5% 1/6W |
| R139    | 1-249-421-11 | CARBON      | 2.2K 5% 1/6W | R195    | 1-247-807-00 | CARBON      | 100 5% 1/6W  |
| R140    | 1-249-421-11 | CARBON      | 2.2K 5% 1/6W | R196    | 1-249-440-11 | CARBON      | 82K 5% 1/6W  |
| R141    | 1-247-867-00 | CARBON      | 33K 5% 1/6W  | R197    | 1-247-706-11 | CARBON      | 330 5% 1/4W  |
| R142    | 1-247-847-00 | CARBON      | 4.7K 5% 1/6W | R198    | 1-247-891-00 | CARBON      | 330K 5% 1/6W |
| R143    | 1-247-831-00 | CARBON      | 1K 5% 1/6W   | R199    | 1-249-429-11 | CARBON      | 10K 5% 1/6W  |
| R144    | 1-249-414-11 | CARBON      | 560 5% 1/6W  | R203    | 1-247-831-00 | CARBON      | 1K 5% 1/6W   |
| R145    | 1-249-433-11 | CARBON      | 22K 5% 1/6W  | R204    | 1-215-457-00 | METAL       | 33K 1% 1/6W  |
| R146    | 1-247-823-00 | CARBON      | 470 5% 1/6W  | R205    | 1-214-765-00 | METAL       | 33K 1% 1/4W  |
| R147    | 1-249-437-11 | CARBON      | 47K 5% 1/6W  | R206    | 1-247-845-00 | CARBON      | 3.9K 5% 1/6W |
| R148    | 1-247-721-11 | CARBON      | 4.7K 5% 1/4W | R209    | 1-247-713-11 | CARBON      | 1K 5% 1/4W   |
| R149    | 1-247-717-11 | CARBON      | 2.2K 5% 1/4W | R210    | 1-247-831-00 | CARBON      | 1K 5% 1/6W   |
| R150    | 1-249-429-11 | CARBON      | 10K 5% 1/6W  | R211    | 1-247-129-00 | CARBON      | 820 5% 1/4W  |
| R151    | 1-247-721-11 | CARBON      | 4.7K 5% 1/4W | R214    | 1-247-851-00 | CARBON      | 6.8K 5% 1/6W |
| R152    | 1-249-469-11 | CARBON      | 100K 5% 1/4W | R215    | 1-247-831-00 | CARBON      | 1K 5% 1/6W   |
| R153    | 1-249-433-11 | CARBON      | 22K 5% 1/6W  | R216    | 1-247-827-00 | CARBON      | 680 5% 1/6W  |
| R154    | 1-247-725-11 | CARBON      | 10K 5% 1/4W  | R217    | 1-247-829-00 | CARBON      | 820 5% 1/6W  |
| R155    | 1-247-853-00 | CARBON      | 8.2K 5% 1/6W | R218    | 1-247-807-00 | CARBON      | 100 5% 1/6W  |
| R156    | 1-249-421-11 | CARBON      | 2.2K 5% 1/6W | R219    | 1-247-821-00 | CARBON      | 390 5% 1/6W  |
| R157    | 1-247-163-00 | CARBON      | 22K 5% 1/4W  | R220    | 1-247-688-11 | CARBON      | 10 5% 1/4W   |
| R158    | 1-249-421-11 | CARBON      | 2.2K 5% 1/6W | R236    | 1-247-807-00 | CARBON      | 100 5% 1/6W  |
| R159    | 1-249-421-11 | CARBON      | 2.2K 5% 1/6W | R241    | 1-249-433-11 | CARBON      | 22K 5% 1/6W  |
| R160    | 1-247-125-00 | CARBON      | 560 5% 1/4W  | R242    | 1-249-433-11 | CARBON      | 22K 5% 1/6W  |
| R161    | 1-247-879-00 | CARBON      | 100K 5% 1/6W | R250    | 1-247-831-00 | CARBON      | 1K 5% 1/6W   |
| R162    | 1-247-863-00 | CARBON      | 22K 5% 1/6W  | R251    | 1-247-831-00 | CARBON      | 1K 5% 1/6W   |
| R163    | 1-247-163-00 | CARBON      | 22K 5% 1/4W  | R252    | 1-249-425-11 | CARBON      | 4.7K 5% 1/6W |
| R164    | 1-247-849-00 | CARBON      | 5.6K 5% 1/6W | R301    | 1-215-461-00 | METAL       | 47K 1% 1/6W  |
| R165    | 1-247-173-00 | CARBON      | 56K 5% 1/4W  | R302    | 1-246-523-00 | CARBON      | 120K 5% 1/4W |
| R166    | 1-249-429-11 | CARBON      | 10K 5% 1/6W  | R303    | 1-249-432-11 | CARBON      | 18K 5% 1/6W  |
| R167    | 1-249-437-11 | CARBON      | 47K 5% 1/6W  | R304    | 1-247-133-00 | CARBON      | 1.2K 5% 1/4W |
| R170    | 1-249-425-11 | CARBON      | 4.7K 5% 1/6W | R305    | 1-247-903-00 | CARBON      | 1M 5% 1/6W   |
| R171    | 1-249-421-11 | CARBON      | 2.2K 5% 1/6W | R306    | 1-214-748-00 | METAL       | 6.2K 1% 1/4W |
| R172    | 1-249-421-11 | CARBON      | 2.2K 5% 1/6W | R307    | 1-247-849-00 | CARBON      | 5.6K 5% 1/6W |
| R173    | 1-247-717-11 | CARBON      | 2.2K 5% 1/4W | R308    | 1-249-419-11 | CARBON      | 1.5K 5% 1/6W |

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| Ref.No. | Part No.     | Description | Remark        | Ref.No. | Part No.     | Description | Remark        |
|---------|--------------|-------------|---------------|---------|--------------|-------------|---------------|
| R309    | 1-247-725-11 | CARBON      | 10K 5% 1/4W   | R366    | 1-249-433-11 | CARBON      | 22K 5% 1/6W   |
| R310    | 1-247-851-00 | CARBON      | 6.8K 5% 1/6W  | R367    | 1-247-718-11 | CARBON      | 2.7K 5% 1/4W  |
| R311    | 1-246-511-00 | CARBON      | 39K 5% 1/4W   | R368    | 1-247-827-00 | CARBON      | 680 5% 1/6W   |
| R312    | 1-247-833-00 | CARBON      | 1.2K 5% 1/6W  | R369    | 1-247-807-00 | CARBON      | 100 5% 1/6W   |
| R313    | 1-249-429-11 | CARBON      | 10K 5% 1/6W   | R370    | 1-247-718-11 | CARBON      | 2.7K 5% 1/4W  |
| R316    | 1-247-845-00 | CARBON      | 3.9K 5% 1/6W  | R371    | 1-247-713-11 | CARBON      | 1K 5% 1/4W    |
| R317    | 1-249-429-11 | CARBON      | 10K 5% 1/6W   | R372    | 1-247-845-00 | CARBON      | 3.9K 5% 1/6W  |
| R318    | 1-249-469-11 | CARBON      | 100K 5% 1/4W  | R373    | 1-247-827-00 | CARBON      | 680 5% 1/6W   |
| R319    | 1-247-867-00 | CARBON      | 33K 5% 1/6W   | R374    | 1-247-831-00 | CARBON      | 1K 5% 1/6W    |
| R320    | 1-247-843-00 | CARBON      | 3.3K 5% 1/6W  | R375    | 1-247-843-00 | CARBON      | 3.3K 5% 1/6W  |
| R321    | 1-247-151-00 | CARBON      | 6.8K 5% 1/4W  | R379    | 1-247-713-11 | CARBON      | 1K 5% 1/4W    |
| R322    | 1-249-432-11 | CARBON      | 18K 5% 1/6W   | R381    | 1-249-429-11 | CARBON      | 10K 5% 1/6W   |
| R323    | 1-247-879-00 | CARBON      | 100K 5% 1/6W  | R382    | 1-247-879-00 | CARBON      | 100K 5% 1/6W  |
| R324    | 1-247-847-00 | CARBON      | 4.7K 5% 1/6W  | R399    | 1-249-425-11 | CARBON      | 4.7K 5% 1/6W  |
| R325    | 1-247-704-11 | CARBON      | 220 5% 1/4W   | R417    | 1-249-405-11 | CARBON      | 100 5% 1/6W F |
| R326    | 1-247-831-00 | CARBON      | 1K 5% 1/6W    | R500    | 1-247-833-00 | CARBON      | 1.2K 5% 1/6W  |
| R327    | 1-247-845-00 | CARBON      | 3.9K 5% 1/6W  | R501    | 1-247-809-00 | CARBON      | 120 5% 1/6W   |
| R328    | 1-249-429-11 | CARBON      | 10K 5% 1/6W   | R502    | 1-247-817-00 | CARBON      | 270 5% 1/6W   |
| R329    | 1-247-869-00 | CARBON      | 39K 5% 1/6W   | R504    | 1-247-807-00 | CARBON      | 100 5% 1/6W   |
| R330    | 1-247-899-00 | CARBON      | 680K 5% 1/6W  | R505    | 1-215-882-00 | METAL OXIDE | 22 5% 2W F    |
| R331    | 1-249-437-11 | CARBON      | 47K 5% 1/6W   | R506    | 1-247-827-00 | CARBON      | 680 5% 1/6W   |
| R332    | 1-247-867-00 | CARBON      | 33K 5% 1/6W   | R507    | 1-244-919-51 | CARBON      | 82K 5% 1/2W   |
| R333    | 1-247-167-00 | CARBON      | 33K 5% 1/4W   | R508    | 1-249-429-11 | CARBON      | 10K 5% 1/6W   |
| R334    | 1-247-713-11 | CARBON      | 1K 5% 1/4W    | R509    | 1-247-721-11 | CARBON      | 4.7K 5% 1/4W  |
| R335    | 1-247-713-11 | CARBON      | 1K 5% 1/4W    | R510    | 1-247-849-00 | CARBON      | 5.6K 5% 1/6W  |
| R336    | 1-247-713-11 | CARBON      | 1K 5% 1/4W    | R511    | 1-247-725-11 | CARBON      | 10K 5% 1/4W   |
| R337    | 1-247-807-00 | CARBON      | 100 5% 1/6W   | R512    | 1-215-480-00 | METAL       | 300K 1% 1/6W  |
| R338    | 1-246-511-00 | CARBON      | 39K 5% 1/4W   | ※R513 △ |              | METAL       | 1/4W          |
| R339    | 1-247-700-11 | CARBON      | 100 5% 1/4W   | R514    | 1-247-851-00 | CARBON      | 6.8K 5% 1/6W  |
| R340    | 1-249-434-11 | CARBON      | 27K 5% 1/6W   | R515    | 1-247-152-00 | CARBON      | 7.5K 5% 1/4W  |
| R341    | 1-247-821-00 | CARBON      | 390 5% 1/6W   | R517    | 1-215-445-00 | METAL       | 10K 1% 1/6W   |
| R342    | 1-247-821-00 | CARBON      | 390 5% 1/6W   | R518    | 1-247-713-11 | CARBON      | 1K 5% 1/4W    |
| R343    | 1-247-821-00 | CARBON      | 390 5% 1/6W   | R519    | 1-215-430-00 | METAL       | 2.4K 1% 1/6W  |
| R344    | 1-247-821-00 | CARBON      | 390 5% 1/6W   | R520    | 1-247-843-00 | CARBON      | 3.3K 5% 1/6W  |
| R345    | 1-247-831-00 | CARBON      | 1K 5% 1/6W    | R521    | 1-247-831-00 | CARBON      | 1K 5% 1/6W    |
| R347    | 1-247-831-00 | CARBON      | 1K 5% 1/6W    | R526    | 1-215-899-11 | METAL OXIDE | 15K 5% 2W F   |
| R348    | 1-247-163-00 | CARBON      | 22K 5% 1/4W   | R529    | 1-215-432-00 | METAL       | 3K 1% 1/6W    |
| R350    | 1-249-421-11 | CARBON      | 2.2K 5% 1/6W  | R530    | 1-247-149-00 | CARBON      | 5.6K 5% 1/4W  |
| R351    | 1-247-713-11 | CARBON      | 1K 5% 1/4W    | R532    | 1-214-777-00 | METAL       | 100K 1% 1/4W  |
| R352    | 1-247-833-00 | CARBON      | 1.2K 5% 1/6W  | R533    | 1-247-725-11 | CARBON      | 10K 5% 1/4W   |
| R353    | 1-247-807-00 | CARBON      | 100 5% 1/6W   | R537    | 1-214-771-00 | METAL       | 56K 1% 1/4W   |
| R354    | 1-202-730-00 | SOLID       | 8.2M 10% 1/2W | R539    | 1-216-460-11 | METAL OXIDE | 3.9K 5% 2W F  |
| R355    | 1-247-725-11 | CARBON      | 10K 5% 1/4W   | R540 △  | 1-249-413-51 | CARBON      | 470 5% 1/4W F |
| R356    | 1-247-831-00 | CARBON      | 1K 5% 1/6W    | R544    | 1-216-460-11 | METAL OXIDE | 3.9K 5% 2W F  |
| R357    | 1-247-859-00 | CARBON      | 15K 5% 1/6W   | ※R545   | 1-247-713-11 | CARBON      | 1K 5% 1/4W    |
| R358    | 1-247-831-00 | CARBON      | 1K 5% 1/6W    | ※R545   | 1-247-717-11 | CARBON      | 2.2K 5% 1/4W  |
| R359    | 1-249-421-11 | CARBON      | 2.2K 5% 1/6W  | ※R545   | 1-247-143-00 | CARBON      | 3.3K 5% 1/4W  |
| R360    | 1-247-831-00 | CARBON      | 1K 5% 1/6W    | ※R545   | 1-247-721-11 | CARBON      | 4.7K 5% 1/4W  |
| R361    | 1-247-813-00 | CARBON      | 180 5% 1/6W   | ※R545   | 1-247-149-00 | CARBON      | 5.6K 5% 1/4W  |
| R362    | 1-246-463-00 | CARBON      | 390 5% 1/4W   | ※R545   | 1-247-151-00 | CARBON      | 6.8K 5% 1/4W  |
| R363    | 1-247-807-00 | CARBON      | 100 5% 1/6W   | ※R545   | 1-247-153-00 | CARBON      | 8.2K 5% 1/4W  |
| R364    | 1-247-879-00 | CARBON      | 100K 5% 1/6W  | ※R545   | 1-247-725-11 | CARBON      | 10K 5% 1/4W   |
| R365    | 1-249-432-11 | CARBON      | 18K 5% 1/6W   | ※R545   | 1-249-459-11 | CARBON      | 12K 5% 1/4W   |

● ※ : selected to yield optimum performance.

● The components identified by ☒ in this manual have been carefully factory-selected for each set in order to satisfy regulations regarding X-ray radiation. Select the resistance value according to SAFETY RELATED ADJUSTMENT.

The components identified by shading and mark △ are critical for safety. Replace only with part number specified.

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| Ref.No. | Part No.       | Description | Remark         | Ref.No.           | Part No.       | Description              | Remark        |
|---------|----------------|-------------|----------------|-------------------|----------------|--------------------------|---------------|
| *R545   | 1-247-158-00   | CARBON      | 13K 5% 1/4W    | R830              | 1-247-903-00   | CARBON                   | 1M 5% 1/6W    |
| *R545   | 1-249-460-11   | CARBON      | 15K 5% 1/4W    | R831              | 1-247-843-00   | CARBON                   | 3.3K 5% 1/6W  |
| R546    | 1-215-878-00   | METAL OXIDE | 33K 5% 1W F    | R832              | 1-247-827-00   | CARBON                   | 680 5% 1/6W   |
| R547    | 1-247-841-00   | CARBON      | 2.7K 5% 1/6W   | R833              | 1-247-827-00   | CARBON                   | 680 5% 1/6W   |
| R549    | 1-247-821-00   | CARBON      | 390 5% 1/6W    | R834              | 1-247-823-00   | CARBON                   | 470 5% 1/6W   |
| R550    | 1-247-713-11   | CARBON      | 1K 5% 1/4W     | R835              | 1-247-829-00   | CARBON                   | 820 5% 1/6W   |
| R551    | 1-249-425-11   | CARBON      | 4.7K 5% 1/6W F | R836              | 1-249-421-11   | CARBON                   | 2.2K 5% 1/6W  |
| R552    | 1-215-447-00   | METAL       | 12K 1% 1/6W    | R839              | △ 1-246-987-11 | CARBON                   | 47 5% 1/8W F  |
| R553    | 1-247-845-00   | CARBON      | 3.9K 5% 1/6W   | R842              | △ 1-249-415-51 | CARBON                   | 680 5% 1/6W F |
| R554    | 1-249-421-11   | CARBON      | 2.2K 5% 1/6W   | R843              | △ 1-249-415-51 | CARBON                   | 680 5% 1/6W F |
| R558    | 1-247-171-00   | CARBON      | 47K 5% 1/4W    | R849              | △ 1-246-987-11 | CARBON                   | 47 5% 1/8W F  |
| R559    | 1-214-785-00   | METAL       | 220K 1% 1/4W   | R855              | 1-249-434-11   | CARBON                   | 27K 5% 1/6W   |
| R565    | 1-249-437-11   | CARBON      | 47K 5% 1/6W    | R856              | 1-249-434-11   | CARBON                   | 27K 5% 1/6W   |
| R572    | 1-249-425-11   | CARBON      | 4.7K 5% 1/6W   | R859              | 1-247-857-00   | CARBON                   | 12K 5% 1/6W   |
| R578    | 1-247-706-11   | CARBON      | 330 5% 1/4W    | R860              | 1-249-459-11   | CARBON                   | 12K 5% 1/4W   |
| R601    | △ 1-202-719-51 | SOLID       | 1M 10% 1/2W    | R870              | 1-249-425-11   | CARBON                   | 4.7K 5% 1/6W  |
| R602    | △ 1-205-792-11 | CEMENTED    | 1.8 5% 10W     | R871              | 1-249-433-11   | CARBON                   | 22K 5% 1/6W   |
| R603    | 1-216-431-11   | METAL OXIDE | 560 5% 1W F    | R872              | 1-249-425-11   | CARBON                   | 4.7K 5% 1/6W  |
| R604    | 1-215-896-00   | METAL OXIDE | 4.7K 5% 2W F   | R873              | 1-247-831-00   | CARBON                   | 1K 5% 1/6W    |
| R605    | △ 1-205-691-11 | CEMENTED    | 150 5% 20W     | R875              | 1-249-433-11   | CARBON                   | 22K 5% 1/6W   |
| R610    | △ 1-217-224-11 | WIREWOUND   | 100 10% 2W F   | VARIABLE RESISTOR |                |                          |               |
| R611    | 1-215-872-11   | METAL OXIDE | 3.3K 5% 1W F   | RV251             | 1-230-271-00   | RES, ADJ, CARBON         | 4.7K          |
| R612    | 1-205-744-11   | CEMENTED    | 4.7K 5% 20W    | RV301             | 1-230-935-11   | RES, VAR, CARBON         | 20KX4         |
| R613    | 1-249-437-11   | CARBON      | 47K 5% 1/6W    | RV302             | 1-230-935-11   | RES, VAR, CARBON         | 20KX4         |
| R614    | 1-247-721-11   | CARBON      | 4.7K 5% 1/4W   | RV303             | 1-230-935-11   | RES, VAR, CARBON         | 20KX4         |
| R802    | 1-214-958-00   | METAL       | 560K 1% 1/4W   | RV304             | 1-230-935-11   | RES, VAR, CARBON         | 20KX4         |
| R803    | 1-215-449-00   | METAL       | 15K 1% 1/6W    | RV306             | 1-230-631-11   | RES, ADJ, CARBON         | 22K           |
| R804    | 1-249-421-11   | CARBON      | 2.2K 5% 1/6W   | RV351             | 1-230-626-41   | RES, ADJ, CARBON         | 470           |
| R805    | 1-249-429-11   | CARBON      | 10K 5% 1/6W    | RV501             | 1-228-724-00   | RES, ADJ, CERAMIC CARBON | 10K           |
| R806    | 1-247-819-00   | CARBON      | 330 5% 1/6W    | RV503             | 1-228-728-00   | RES, ADJ, CERAMIC CARBON | 100K          |
| R807    | 1-247-819-00   | CARBON      | 330 5% 1/6W    | RV505             | 1-230-271-00   | RES, ADJ, CARBON         | 4.7K          |
| R808    | 1-247-849-00   | CARBON      | 5.6K 5% 1/6W   | RV506             | 1-230-631-11   | RES, ADJ, CARBON         | 22K           |
| R809    | 1-247-867-00   | CARBON      | 33K 5% 1/6W    | RV801             | 1-228-723-00   | RES, ADJ, CERAMIC CARBON | 4.7K          |
| R810    | 1-249-421-11   | CARBON      | 2.2K 5% 1/6W   | RV802             | 1-230-630-11   | RES, ADJ, CARBON         | 10K           |
| R811    | 1-247-831-00   | CARBON      | 1K 5% 1/6W     | RV803             | 1-228-724-00   | RES, ADJ, CERAMIC CARBON | 10K           |
| R812    | 1-249-419-11   | CARBON      | 1.5K 5% 1/6W   | RV804             | 1-230-630-11   | RES, ADJ, CARBON         | 10K           |
| R813    | 1-247-831-00   | CARBON      | 1K 5% 1/6W     | RV811             | 1-228-728-00   | RES, ADJ, CERAMIC CARBON | 100K          |
| R814    | 1-247-831-00   | CARBON      | 1K 5% 1/6W     | RV812             | 1-230-632-11   | RES, ADJ, CARBON         | 33K           |
| R815    | 1-247-831-00   | CARBON      | 1K 5% 1/6W     | RV814             | 1-228-724-00   | RES, ADJ, CERAMIC CARBON | 10K           |
| R816    | 1-247-879-00   | CARBON      | 100K 5% 1/6W   | RV815             | 1-228-724-00   | RES, ADJ, CERAMIC CARBON | 10K           |
| R817    | 1-215-470-00   | METAL       | 110K 1% 1/6W   | RV816             | 1-228-724-00   | RES, ADJ, CERAMIC CARBON | 10K           |
| R818    | 1-215-470-00   | METAL       | 110K 1% 1/6W   | RV817             | 1-230-637-41   | RES, ADJ, CARBON         | 470K          |
| R819    | 1-247-706-11   | CARBON      | 330 5% 1/4W    | RELAY             |                |                          |               |
| R820    | 1-247-713-11   | CARBON      | 1K 5% 1/4W     | RY601             | △ 1-515-573-11 | RELAY, POWER             |               |
| R821    | 1-247-713-11   | CARBON      | 1K 5% 1/4W     | SWITCH            |                |                          |               |
| R822    | 1-249-414-11   | CARBON      | 560 5% 1/6W    | S002              | 1-554-804-11   | SWITCH, PUSH (1 KEY)     |               |
| R823    | 1-215-430-00   | METAL       | 2.4K 1% 1/6W   | S003              | 1-554-804-11   | SWITCH, PUSH (1 KEY)     |               |
| R824    | 1-247-853-00   | CARBON      | 8.2K 5% 1/6W   | S004              | 1-554-804-11   | SWITCH, PUSH (1 KEY)     |               |
| R825    | 1-247-833-00   | CARBON      | 1.2K 5% 1/6W   | S005              | 1-554-804-11   | SWITCH, PUSH (1 KEY)     |               |
| R826    | 1-249-429-11   | CARBON      | 10K 5% 1/6W    | S006              | 1-554-804-11   | SWITCH, PUSH (1 KEY)     |               |
| R827    | 1-249-429-11   | CARBON      | 10K 5% 1/6W    |                   |                |                          |               |
| R828    | 1-247-721-11   | CARBON      | 4.7K 5% 1/4W   |                   |                |                          |               |
| R829    | 1-249-429-11   | CARBON      | 10K 5% 1/6W    |                   |                |                          |               |

• \* : selected to yield optimum performance.

The components identified by shading and mark △ are critical for safety. Replace only with part number specified.

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| Ref.No.        | Part No.             | Description                | Remark   | Ref.No. | Part No.       | Description                   | Remark   |
|----------------|----------------------|----------------------------|----------|---------|----------------|-------------------------------|----------|
| S007B          | 1-554-804-11         | SWITCH, PUSH (1 KEY)       |          |         |                | <u>COIL</u>                   |          |
| S050           | 1-554-804-11         | SWITCH, PUSH (1 KEY)       |          | L701    | 1-408-450-31   | MICRO INDUCTOR 47UH           |          |
| S051           | 1-554-804-11         | SWITCH, PUSH (1 KEY)       |          |         |                | <u>TRANSISTOR</u>             |          |
| S052           | 1-554-804-11         | SWITCH, PUSH (1 KEY)       |          | Q701    | 8-729-178-54   | TRANSISTOR 2SC2785            |          |
| S057           | 1-554-804-11         | SWITCH, PUSH (1 KEY)       |          | Q702    | 8-729-326-11   | TRANSISTOR 2SC2611            |          |
| S059           | 1-554-804-11         | SWITCH, PUSH (1 KEY)       |          | Q703    | 8-729-178-54   | TRANSISTOR 2SC2785            |          |
| S061           | 1-570-240-11         | SWITCH, ROTARY             |          | Q704    | 8-729-326-11   | TRANSISTOR 2SC2611            |          |
| S062           | 1-570-240-11         | SWITCH, ROTARY             |          | Q705    | 8-729-178-54   | TRANSISTOR 2SC2785            |          |
| S063           | 1-570-240-11         | SWITCH, ROTARY             |          | Q706    | 8-729-326-11   | TRANSISTOR 2SC2611            |          |
|                |                      | <u>TRANSFORMER</u>         |          |         |                | <u>RESISTOR</u>               |          |
| T601           | △ 1-421-357-31       | TRANSFORMER, LINE FILTER   |          | R701    | 1-202-838-00   | SOLID 100K                    | 1/2W     |
| T801           | 1-427-479-00         | TRANSFORMER (SOT)          |          | R702    | 1-216-395-00   | METAL OXIDE 3.3               | 5% 3W F  |
| T802           | 1-427-479-00         | TRANSFORMER (SOT)          |          | R703    | 1-202-842-51   | SOLID 220K                    | 1/2W     |
|                |                      | <u>THERMISTOR</u>          |          | R704    | 1-202-846-00   | SOLID 470K                    | 1/2W     |
| TH301          | 1-800-945-00         | THERMISTOR S-10K           |          | R705    | 1-202-837-00   | SOLID 82K                     | 1/2W     |
| THP601         | △ 1-806-214-11       | THERMISTOR, POSITIVE       |          | R706    | 1-202-549-00   | SOLID 100                     | 10% 1/2W |
|                |                      | <u>CRYSTAL</u>             |          | R707    | 1-202-838-00   | SOLID 100K                    | 1/2W     |
| X301           | 1-527-396-00         | CRYSTAL, OSC               |          | R708    | 1-202-824-00   | SOLID 3.3K                    | 1/2W     |
| *****          |                      |                            |          | R709    | 1-202-824-00   | SOLID 3.3K                    | 1/2W     |
| *****          |                      |                            |          | R711    | 1-247-819-00   | CARBON 330                    | 5% 1/6W  |
| *A-1330-667-A  | C BOARD, COMPLETE    | *****                      |          | R712    | 1-247-819-00   | CARBON 330                    | 5% 1/6W  |
| △ 1-526-798-12 | SOCKET, CRT          |                            |          | R713    | 1-202-824-00   | SOLID 3.3K                    | 1/2W     |
| *4-379-160-01  | COVER (REAR LID), CV |                            |          | R714    | 1-249-421-11   | CARBON 2.2K                   | 5% 1/6W  |
| *4-379-167-01  | COVER (MAIN), CV     |                            |          | R715    | 1-247-841-00   | CARBON 2.7K                   | 5% 1/6W  |
|                |                      | <u>CONNECTOR</u>           |          | R716    | 1-249-414-11   | CARBON 560                    | 5% 1/6W  |
| C1             | *1-506-371-00        | 2P PLUG (L)                |          | R718    | 1-247-807-00   | CARBON 100                    | 5% 1/6W  |
| C2             | *1-508-768-00        | 6P PLUG                    |          | R719    | 1-247-837-00   | CARBON 1.8K                   | 5% 1/6W  |
| C3             | *1-564-442-11        | PLUG, CONNECTOR (2.5MM) 6P |          | R720    | 1-249-414-11   | CARBON 560                    | 5% 1/6W  |
|                |                      | <u>CAPACITOR</u>           |          | R722    | 1-206-692-00   | METAL OXIDE 15K               | 5% 2W F  |
| C701           | 1-129-714-00         | FILM 0.01MF                | 10% 630V | R723    | 1-247-823-00   | CARBON 470                    | 5% 1/6W  |
| C702           | 1-162-116-00         | CERAMIC 680PF              | 10% 2KV  | R725    | 1-249-421-11   | CARBON 2.2K                   | 5% 1/6W  |
| C703           | 1-162-318-11         | CERAMIC 0.001MF            | 10% 500V | R726    | 1-247-807-00   | CARBON 100                    | 5% 1/6W  |
| C704           | 1-123-370-00         | ELECT 10MF                 | 20% 63V  | R727    | 1-249-419-11   | CARBON 1.5K                   | 5% 1/6W  |
| C705           | 1-102-116-00         | CERAMIC 680PF              | 10% 50V  | R728    | 1-247-823-00   | CARBON 470                    | 5% 1/6W  |
| C706           | 1-102-116-00         | CERAMIC 680PF              | 10% 50V  | R729    | 1-247-819-00   | CARBON 330                    | 5% 1/6W  |
| C707           | 1-102-116-00         | CERAMIC 680PF              | 10% 50V  | R730    | 1-206-692-00   | METAL OXIDE 15K               | 5% 2W F  |
| C708           | 1-102-109-00         | CERAMIC 180PF              | 10% 50V  | R732    | 1-247-818-00   | CARBON 300                    | 5% 1/6W  |
| C709           | 1-102-109-00         | CERAMIC 180PF              | 10% 50V  | R733    | 1-247-841-00   | CARBON 2.7K                   | 5% 1/6W  |
| C710           | 1-102-109-00         | CERAMIC 180PF              | 10% 50V  | R734    | 1-249-421-11   | CARBON 2.2K                   | 5% 1/6W  |
| C722           | 1-162-622-11         | CERAMIC 330PF              | 10% 6.3V | R735    | 1-247-807-00   | CARBON 100                    | 5% 1/6W  |
|                |                      | <u>DIODE</u>               |          | R737    | 1-206-692-00   | METAL OXIDE 15K               | 5% 2W F  |
| D701           | 8-719-911-19         | DIODE 1SS119               |          | R738    | 1-202-848-00   | SOLID 680K                    | 1/2W     |
| D702           | 8-719-911-19         | DIODE 1SS119               |          | R739    | 1-202-838-00   | SOLID 100K                    | 1/2W     |
| D703           | 8-719-911-19         | DIODE 1SS119               |          |         |                | <u>VARIABLE RESISTOR</u>      |          |
|                |                      |                            |          | RV701   | △ 1-230-619-11 | RES, ADJ, METAL GLAZE 110M    |          |
|                |                      |                            |          | RV702   | 1-228-723-00   | RES, ADJ, CERAMIC CARBON 4.7K |          |
|                |                      |                            |          | RV703   | 1-228-721-00   | RES, ADJ, CERAMIC CARBON 2.2K |          |
|                |                      |                            |          | RV704   | 1-228-723-00   | RES, ADJ, CERAMIC CARBON 4.7K |          |
|                |                      |                            |          | RV705   | 1-228-721-00   | RES, ADJ, CERAMIC CARBON 2.2K |          |

The components identified by shading and mark △ are critical for safety. Replace only with part number specified.

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| Ref.No.                                  | Part No.      | Description                       | Remark | Ref.No.          | Part No.      | Description                    | Remark |
|------------------------------------------|---------------|-----------------------------------|--------|------------------|---------------|--------------------------------|--------|
| RV706                                    | 1-228-723-00  | RES, ADJ, CERAMIC CARBON 4.7K     |        | C1547            | 1-102-978-00  | CERAMIC 220PF 5% 50V           |        |
| RV707                                    | 1-228-725-00  | RES, ADJ, CERAMIC CARBON 22K      |        | C1550            | 1-136-312-51  | FILM 0.043MF 5% 400V           |        |
| RV708                                    | 1-226-114-00  | RES, ADJ, METAL GLAZE 2.2M        |        | C1554            | 1-161-830-00  | CERAMIC 0.0047MF 500V          |        |
| *****                                    |               |                                   |        | C1555            | 1-123-947-00  | ELECT 10MF 20% 250V            |        |
| *****                                    |               |                                   |        | <u>CONNECTOR</u> |               |                                |        |
| *A-1345-582-A D BOARD, COMPLETE          |               |                                   |        | D1               | *1-508-767-00 | 5P PLUG                        |        |
| *****                                    |               |                                   |        | D2               | *1-564-440-11 | PLUG, CONNECTOR (2.5MM) 4P     |        |
| 3-701-833-01 HEAD, WASHER, TAPPING SCREW |               |                                   |        | D3               | *1-564-442-11 | PLUG, CONNECTOR (2.5MM) 6P     |        |
| 4-302-428-00 HEAD, WASHER, TAPPING SCREW |               |                                   |        | D4               | *1-560-124-00 | PLUG, CONNECTOR (2.5MM) 4P     |        |
| <u>CAPACITOR</u>                         |               |                                   |        | D5               | *1-508-768-00 | 6P PLUG                        |        |
| C651                                     | 1-123-933-00  | ELECT 10MF 20% 160V               |        | DY1              | *1-564-038-00 | CONNECTOR PLUG, DY (MINI) 6P   |        |
| C653                                     | 1-123-933-00  | ELECT 10MF 20% 160V               |        | <u>DIODE</u>     |               |                                |        |
| C1502                                    | 1-108-630-91  | MYLAR 0.022MF 10% 100V            |        | D651             | 8-719-200-02  | DIODE 10E2                     |        |
| C1503                                    | 1-102-989-00  | CERAMIC 68PF 5% 500V              |        | D1502            | 8-719-200-02  | DIODE 10E2                     |        |
| C1504                                    | 1-106-192-00  | MYLAR 0.0068MF 10% 100V           |        | D1503            | 8-719-200-02  | DIODE 10E2                     |        |
| C1505                                    | 1-123-345-00  | ELECT 100MF 20% 35V               |        | D1504            | 8-719-200-02  | DIODE 10E2                     |        |
| C1506                                    | 1-123-307-00  | ELECT 100MF 20% 10V               |        | D1506            | 8-719-300-65  | DIODE ES1F                     |        |
| C1507                                    | 1-123-587-00  | ELECT 560MF 10% 25V               |        | D1507            | 8-719-300-76  | DIODE RH-1A                    |        |
| C1508                                    | 1-123-332-00  | ELECT 47MF 20% 25V                |        | D1508            | 8-719-901-93  | DIODE V19E                     |        |
| C1509                                    | 1-123-356-00  | ELECT 10MF 20% 50V                |        | D1509            | 8-719-921-53  | DIODE RGP15G                   |        |
| C1510                                    | 1-123-356-00  | ELECT 10MF 20% 50V                |        | D1510            | 8-719-300-65  | DIODE ES1F                     |        |
| C1513                                    | 1-108-614-91  | MYLAR 0.001MF 10% 100V            |        | D1511            | 8-719-903-29  | DIODE ERB43-04                 |        |
| C1514                                    | 1-108-689-11  | MYLAR 0.0056MF 10% 200V           |        | D1512            | 8-719-305-15  | DIODE GH3F                     |        |
| C1515                                    | 1-123-379-00  | ELECT 0.47MF 20% 50V              |        | D1513            | 8-719-928-08  | DIODE ERD28-08S                |        |
| C1516                                    | 1-102-030-00  | CERAMIC 330PF 10% 500V            |        | D1514            | 8-719-903-29  | DIODE ERB43-04                 |        |
| C1519                                    | 1-162-135-51  | CERAMIC 560PF 10% 2KV             |        | D1515            | 8-719-100-43  | DIODE RD7.5E-B1                |        |
| C1520                                    | 1-136-309-11  | FILM 0.0075MF 3% 1.4KV            |        | D1520            | 8-719-901-93  | DIODE V19E                     |        |
| C1521                                    | 1-162-134-51  | CERAMIC 470PF 10% 2KV             |        | <u>IC</u>        |               |                                |        |
| C1522                                    | 1-106-196-00  | MYLAR 0.01MF 10% 100V             |        | IC651            | 8-749-930-35  | IC STR3035                     |        |
| C1523                                    | 1-162-114-00  | CERAMIC 0.0047MF 2KV              |        |                  | 4-369-267-01  | SPACER, MICA; IC651            |        |
| C1524                                    | 1-123-024-00  | ELECT 33MF 160V                   |        | IC1501           | 8-759-105-82  | IC UPC1378H-P                  |        |
| C1525                                    | 1-123-933-00  | ELECT 10MF 20% 160V               |        | IC1502           | 8-759-145-58  | IC UPC4558C                    |        |
| C1526                                    | 1-123-347-00  | ELECT 330MF 20% 35V               |        | <u>COIL</u>      |               |                                |        |
| C1527                                    | 1-123-337-00  | ELECT 1000MF 20% 25V              |        | L1501            | 1-459-570-11  | HLC                            |        |
| C1528                                    | 1-102-212-00  | CERAMIC 820PF 10% 500V            |        | L1502            | 1-459-390-00  | COIL (WITH CORE)               |        |
| C1529                                    | 1-102-212-00  | CERAMIC 820PF 10% 500V            |        | L1503            | 1-408-239-00  | MICRO INDUCTOR 4.7MMH          |        |
| C1531                                    | 1-108-425-00  | MYLAR 0.022MF 10% 200V            |        | L1504            | 1-408-349-00  | COIL, CHOKE                    |        |
| C1532                                    | 1-108-634-81  | MYLAR 0.047MF 10% 100V            |        | L1505            | 1-407-365-00  | COIL, CHOKE                    |        |
| C1533                                    | 1-106-369-00  | MYLAR 0.012MF 10% 200V            |        | L1506            | 1-408-938-00  | MICRO INDUCTOR 22UH            |        |
| C1534                                    | 1-123-346-00  | ELECT 220MF 20% 35V               |        | L1507            | 1-407-696-11  | MICRO INDUCTOR 18UH            |        |
| C1535                                    | 1-129-928-00  | FILM 0.0027MF 10% 630V            |        | L1508            | 1-407-699-11  | MICRO INDUCTOR 33UH            |        |
|                                          | *4-875-455-31 | COVER (DIA. 20), CAPACITOR; C1535 |        | L1509            | 1-459-407-00  | COIL, FERRITE CHOKE            |        |
| C1537                                    | 1-124-192-00  | ELECT 4.7MF 20% 50V               |        | L1510            | 1-459-075-00  | COIL, DYNAMIC CONVERSION CHOKE |        |
| C1538                                    | 1-102-228-00  | CERAMIC 470PF 10% 500V            |        | L1511            | 1-459-104-00  | COIL, DUST CORE                |        |
| C1539                                    | 1-123-943-00  | ELECT 1MF 20% 250V                |        | L1512            | 1-459-313-00  | COIL WITH CORE (HWC)           |        |
| C1540                                    | 1-136-308-11  | FILM 0.68MF 5% 200V               |        | L1513            | 1-407-695-00  | MICRO INDUCTOR 15UH            |        |
| C1541                                    | 1-136-116-00  | FILM 1MF 5% 200V                  |        | <u>NEON LAMP</u> |               |                                |        |
| C1542                                    | 1-108-433-00  | MYLAR 0.1MF 10% 200V              |        | NL1501           | 1-519-237-11  | LAMP, NEON                     |        |
| C1543                                    | 1-162-318-11  | CERAMIC 0.001MF 10% 500V          |        |                  |               |                                |        |
| C1544                                    | 1-123-332-00  | ELECT 47MF 20% 25V                |        |                  |               |                                |        |
| C1545                                    | 1-123-933-00  | ELECT 10MF 20% 160V               |        |                  |               |                                |        |

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T<sub>2</sub>T<sub>1</sub>U<sub>2</sub>U<sub>3</sub>U<sub>1</sub>

| Ref.No.                  | Part No.     | Description                  | Remark | Ref.No.                                         | Part No.          | Description                  | Remark  |
|--------------------------|--------------|------------------------------|--------|-------------------------------------------------|-------------------|------------------------------|---------|
| <u>TRANSISTOR</u>        |              |                              |        | RV1503 1-228-720-00 RES, ADJ, CERAMIC CARBON 1K |                   |                              |         |
| Q1501                    | 8-729-313-42 | TRANSISTOR 2SD1134-C         |        | RV1504                                          | 1-228-718-00      | RES, ADJ, CERAMIC CARBON 330 |         |
| Q1502                    | 8-729-168-82 | TRANSISTOR 2SC2688           |        | <u>SWITCH</u>                                   |                   |                              |         |
| Q1503                    | 8-729-203-80 | TRANSISTOR 2SD1555-LB-S1     |        | S1501                                           | 1-554-186-00      | SWITCH, LEVER                |         |
| <u>RESISTOR</u>          |              |                              |        | <u>SPARK GAP</u>                                |                   |                              |         |
| R651                     | 1-247-719-11 | CARBON 3.3K 5%               | 1/4W   | SG1501                                          | 1-519-063-XX      | DISCHARGING GAP              |         |
| R652                     | 1-247-895-00 | CARBON 470K 5%               | 1/6W   | <u>TRANSFORMER</u>                              |                   |                              |         |
| R653                     | 1-216-463-00 | METAL OXIDE 12K 5%           | 2W F   | T1501                                           | 1-437-090-00      | HDT                          |         |
| R654                     | 1-249-401-51 | CARBON 47 5%                 | 1/6W F | T1502                                           | 1-421-838-11      | TRANSFORMER, FERRITE         |         |
| R1501                    | 1-247-713-11 | CARBON 1K 5%                 | 1/4W   | *****                                           |                   |                              |         |
| R1502                    | 1-247-230-00 | CARBON 390 5%                | 1/2W   | *1-617-432-11                                   | T2 BOARD          |                              |         |
| R1503                    | 1-247-721-11 | CARBON 4.7K 5%               | 1/4W   |                                                 | *****             |                              |         |
| R1504                    | 1-215-373-31 | METAL 10 1%                  | 1/6W   | <u>IC</u>                                       |                   |                              |         |
| R1505                    | 1-247-702-11 | CARBON 150 5%                | 1/4W   | IC001                                           | 8-741-131-70      | IC BX-1317                   |         |
| R1506                    | 1-247-719-11 | CARBON 3.3K 5%               | 1/4W   | *****                                           |                   |                              |         |
| R1507                    | 1-247-704-11 | CARBON 220 5%                | 1/4W   | *1-617-431-11                                   | T1 BOARD          |                              |         |
| R1508                    | 1-247-697-11 | CARBON 56 5%                 | 1/4W   |                                                 | *****             |                              |         |
| R1509                    | 1-216-349-00 | METAL OXIDE 1 5%             | 1W F   | *4-379-157-01                                   | HOLDER, LED       |                              |         |
| R1510                    | 1-247-133-00 | CARBON 1.2K 5%               | 1/4W   | <u>DIODE</u>                                    |                   |                              |         |
| R1511                    | 1-247-163-00 | CARBON 22K 5%                | 1/4W   | D001                                            | 8-719-311-23      | DIODE SEL112NP-N             |         |
| R1512                    | 1-249-429-11 | CARBON 10K 5%                | 1/6W   | D002                                            | 8-719-114-34      | DIODE SY432D                 |         |
| R1514                    | 1-247-879-00 | CARBON 100K 5%               | 1/6W   | D003                                            | 8-719-311-23      | DIODE SEL112NP-N             |         |
| R1515                    | 1-246-535-00 | CARBON 390K 5%               | 1/4W   | D004                                            | 8-719-311-23      | DIODE SEL112NP-N             |         |
| R1517                    | 1-247-851-00 | CARBON 6.8K 5%               | 1/6W   | *****                                           |                   |                              |         |
| R1518                    | 1-249-433-11 | CARBON 22K 5%                | 1/6W   | *1-617-510-11                                   | U2 BOARD          |                              |         |
| R1519                    | 1-246-511-00 | CARBON 39K 5%                | 1/4W   |                                                 | *****             |                              |         |
| R1520                    | 1-247-719-11 | CARBON 3.3K 5%               | 1/4W   | *1-617-511-11                                   | U3 BOARD          |                              |         |
| R1521                    | 1-247-711-11 | CARBON 680 5%                | 1/4W F |                                                 | *****             |                              |         |
| R1522                    | 1-216-428-51 | METAL OXIDE 180 5%           | 1W F   | <u>SWITCH</u>                                   |                   |                              |         |
| R1523                    | 1-216-451-11 | METAL OXIDE 120 5%           | 2W F   | S1402                                           | 1-554-303-11      | SWITCH, KEY BOARD            |         |
| R1524                    | 1-215-863-11 | METAL OXIDE 100 5%           | 1W F   | *****                                           |                   |                              |         |
| R1525                    | 1-213-140-00 | METAL OXIDE 560 5%           | 1W F   | *A-1389-735-A                                   | U1 BOARD COMPLETE |                              |         |
| R1526                    | 1-247-764-11 | CARBON 10K 5%                | 1/2W F |                                                 | *****             |                              |         |
| R1527                    | 1-216-344-00 | METAL OXIDE 0.39 5%          | 1W F   | <u>CAPACITOR</u>                                |                   |                              |         |
| R1528                    | 1-216-353-51 | METAL OXIDE 2.2 5%           | 1W F   | C1401                                           | 1-123-322-00      | ELECT 330MF                  | 20% 16V |
| R1529                    | 1-247-843-00 | CARBON 3.3K 5%               | 1/6W   | C1403                                           | 1-124-445-00      | ELECT 100MF                  | 20% 16V |
| R1530                    | 1-247-713-11 | CARBON 1K 5%                 | 1/4W   | C1404                                           | 1-124-445-00      | ELECT 100MF                  | 20% 16V |
| R1532                    | 1-215-876-00 | METAL OXIDE 15K 5%           | 1W F   |                                                 |                   |                              |         |
| R1533                    | 1-216-445-11 | METAL OXIDE 12 5%            | 2W F   |                                                 |                   |                              |         |
| R1534                    | 1-249-389-11 | CARBON 4.7 5%                | 1/6W F |                                                 |                   |                              |         |
| R1535                    | 1-215-870-11 | METAL OXIDE 1.5K 5%          | 1W F   |                                                 |                   |                              |         |
| R1537                    | 1-215-863-11 | METAL OXIDE 100 5%           | 1W F   |                                                 |                   |                              |         |
| R1538                    | 1-249-410-51 | CARBON 270 5%                | 1/6W F |                                                 |                   |                              |         |
| R1539                    | 1-249-437-11 | CARBON 47K 5%                | 1/6W F |                                                 |                   |                              |         |
| R1540                    | 1-247-823-00 | CARBON 470 5%                | 1/6W   |                                                 |                   |                              |         |
| R1541                    | 1-249-415-11 | CARBON 680 5%                | 1/6W F |                                                 |                   |                              |         |
| R1569                    | 1-249-398-51 | CARBON 27 5%                 | 1/6W F |                                                 |                   |                              |         |
| <u>VARIABLE RESISTOR</u> |              |                              |        |                                                 |                   |                              |         |
| RV1501                   | 1-228-726-00 | RES, ADJ, CERAMIC CARBON 33K |        |                                                 |                   |                              |         |
| RV1502                   | 1-228-725-00 | RES, ADJ, CERAMIC CARBON 22K |        |                                                 |                   |                              |         |

The components identified by shading and mark  $\Delta$  are critical for safety. Replace only with part number specified.

The components identified by shading and mark **A** are critical for safety. Replace only with part number specified.

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| Ref.No. | Part No.     | Description | Remark        | Ref.No. | Part No.      | Description                | Remark        |
|---------|--------------|-------------|---------------|---------|---------------|----------------------------|---------------|
| R1423   | 1-249-391-11 | CARBON      | 6.8 5% 1/6W F | R1484   | 1-249-391-11  | CARBON                     | 6.8 5% 1/6W F |
| R1424   | 1-247-216-00 | CARBON      | 100 5% 1/2W F | R1485   | 1-249-391-11  | CARBON                     | 6.8 5% 1/6W F |
| R1425   | 1-247-873-00 | CARBON      | 56K 5% 1/6W   | R1486   | 1-247-713-11  | CARBON                     | 1K 5% 1/4W    |
| R1426   | 1-247-807-00 | CARBON      | 100 5% 1/6W   | R1487   | 1-249-391-11  | CARBON                     | 6.8 5% 1/6W F |
| R1427   | 1-247-704-11 | CARBON      | 220 5% 1/4W   | R1488   | 1-247-713-11  | CARBON                     | 1K 5% 1/4W    |
| R1428   | 1-216-450-00 | METAL OXIDE | 82 5% 2W F    | R1489   | 1-249-391-11  | CARBON                     | 6.8 5% 1/6W F |
| R1429   | 1-247-873-00 | CARBON      | 56K 5% 1/6W   | R1490   | 1-249-414-11  | CARBON                     | 560 5% 1/6W   |
| R1430   | 1-246-527-00 | CARBON      | 180K 5% 1/4W  | R1491   | 1-249-421-11  | CARBON                     | 2.2K 5% 1/6W  |
| R1431   | 1-249-391-11 | CARBON      | 6.8 5% 1/6W F | R1492   | 1-247-887-00  | CARBON                     | 220K 5% 1/6W  |
| R1432   | 1-247-706-11 | CARBON      | 330 5% 1/4W   | R1493   | 1-247-849-00  | CARBON                     | 5.6K 5% 1/6W  |
| R1433   | 1-249-391-11 | CARBON      | 6.8 5% 1/6W F | R1494   | 1-249-429-11  | CARBON                     | 10K 5% 1/6W   |
| R1434   | 1-246-527-00 | CARBON      | 180K 5% 1/4W  | R1495   | 1-249-429-11  | CARBON                     | 10K 5% 1/6W   |
| R1435   | 1-249-391-11 | CARBON      | 6.8 5% 1/6W F | R1496   | 1-247-887-00  | CARBON                     | 220K 5% 1/6W  |
| R1436   | 1-249-391-11 | CARBON      | 6.8 5% 1/6W F | R1497   | 1-249-469-11  | CARBON                     | 100K 5% 1/4W  |
| R1437   | 1-247-706-11 | CARBON      | 330 5% 1/4W   | R1498   | 1-249-469-11  | CARBON                     | 100K 5% 1/4W  |
| R1438   | 1-249-469-11 | CARBON      | 100K 5% 1/4W  | R1499   | 1-202-726-51  | SOLID                      | 3.9M 10% 1/2W |
| R1439   | 1-247-706-11 | CARBON      | 330 5% 1/4W   |         |               | SWITCH                     |               |
| R1440   | 1-249-429-11 | CARBON      | 10K 5% 1/6W   | S1401   | 1-570-145-11  | SWITCH, SLIDE              |               |
| R1441   | 1-247-171-00 | CARBON      | 47K 5% 1/4W   |         |               | THERMISTOR                 |               |
| R1442   | 1-247-706-11 | CARBON      | 330 5% 1/4W   | TH1401  | 1-800-627-00  | THERMISTOR                 |               |
| R1443   | 1-247-713-11 | CARBON      | 1K 5% 1/4W    |         |               | CONNECTOR                  |               |
| R1444   | 1-249-469-11 | CARBON      | 100K 5% 1/4W  | U1      | *1-560-124-00 | PLUG, CONNECTOR (2.5MM) 4P |               |
| R1445   | 1-247-725-11 | CARBON      | 10K 5% 1/4W   | U2      | *1-564-441-11 | PLUG, CONNECTOR (2.5MM) 5P |               |
| R1446   | 1-247-831-00 | CARBON      | 1K 5% 1/6W    | U3      | *1-564-440-11 | PLUG, CONNECTOR (2.5MM) 4P |               |
| R1447   | 1-247-173-00 | CARBON      | 56K 5% 1/4W   | U4      | *1-564-442-11 | PLUG, CONNECTOR (2.5MM) 6P |               |
| R1448   | 1-247-873-00 | CARBON      | 56K 5% 1/6W   |         |               |                            |               |
| R1449   | 1-247-173-00 | CARBON      | 56K 5% 1/4W   |         |               |                            |               |
| R1453   | 1-247-831-00 | CARBON      | 1K 5% 1/6W    |         |               |                            |               |
| R1454   | 1-247-713-11 | CARBON      | 1K 5% 1/4W    |         |               |                            |               |
| R1455   | 1-247-706-11 | CARBON      | 330 5% 1/4W   |         |               |                            |               |
| R1456   | 1-249-421-11 | CARBON      | 2.2K 5% 1/6W  |         |               |                            |               |
| R1457   | 1-249-421-11 | CARBON      | 2.2K 5% 1/6W  |         |               |                            |               |
| R1458   | 1-247-706-11 | CARBON      | 330 5% 1/4W   |         |               |                            |               |
| R1459   | 1-249-469-11 | CARBON      | 100K 5% 1/4W  |         |               |                            |               |
| R1460   | 1-249-433-11 | CARBON      | 22K 5% 1/6W   |         |               |                            |               |
| R1461   | 1-249-433-11 | CARBON      | 22K 5% 1/6W   |         |               |                            |               |
| R1462   | 1-247-807-00 | CARBON      | 100 5% 1/6W   |         |               |                            |               |
| R1463   | 1-249-433-11 | CARBON      | 22K 5% 1/6W   |         |               |                            |               |
| R1464   | 1-249-433-11 | CARBON      | 22K 5% 1/6W   |         |               |                            |               |
| R1465   | 1-247-899-00 | CARBON      | 680K 5% 1/6W  |         |               |                            |               |
| R1466   | 1-247-807-00 | CARBON      | 100 5% 1/6W   |         |               |                            |               |
| R1467   | 1-247-899-00 | CARBON      | 680K 5% 1/6W  |         |               |                            |               |
| R1469   | 1-247-873-00 | CARBON      | 56K 5% 1/6W   |         |               |                            |               |
| R1470   | 1-249-429-11 | CARBON      | 10K 5% 1/6W   |         |               |                            |               |
| R1471   | 1-247-171-00 | CARBON      | 47K 5% 1/4W   |         |               |                            |               |
| R1472   | 1-247-831-00 | CARBON      | 1K 5% 1/6W    |         |               |                            |               |
| R1473   | 1-247-879-00 | CARBON      | 100K 5% 1/6W  |         |               |                            |               |
| R1474   | 1-247-725-11 | CARBON      | 10K 5% 1/4W   |         |               |                            |               |
| R1475   | 1-247-713-11 | CARBON      | 1K 5% 1/4W    |         |               |                            |               |
| R1476   | 1-247-873-00 | CARBON      | 56K 5% 1/6W   |         |               |                            |               |
| R1477   | 1-247-873-00 | CARBON      | 56K 5% 1/6W   |         |               |                            |               |
| R1479   | 1-246-511-00 | CARBON      | 39K 5% 1/4W   |         |               |                            |               |

\*\*\*\*\*

## MISCELLANEOUS

\*\*\*\*\*

A.1-230-786-12 RESISTER ASSY, HIGH-VOLTAGE  
 A.1-417-121-21 SELECTOR, ANTENNA  
 A.1-451-268-11 DEFLECTION YOKE (SY-153C)  
 1-452-032-00 MAGNET, DISK; 10MM  $\phi$   
 1-452-094-00 MAGNET, ROTATABLE DISK; 15MM  $\phi$

1-452-277-00 MAGNET, BMC  
 1-536-973-11 TERMINAL BOARD, INPUT/OUTPUT  
 A.1-557-269-11 CORD, POWER

L901 A.1-426-227-23 COIL, DEMAGNETIZATION  
 SP901 1-503-258-21 SPEAKER  
 SP902 1-503-258-21 SPEAKER  
 T1503A.1-439-351-21 TRANSFORMER ASSY, FLYBACK  
 TU101A.1-463-603-11 TUNER, ET (BTP-201)

V901 A.8-736-951-05 CRT (A51JKQ10X)

The components identified by shading and mark A are critical for safety. Replace only with part number specified.

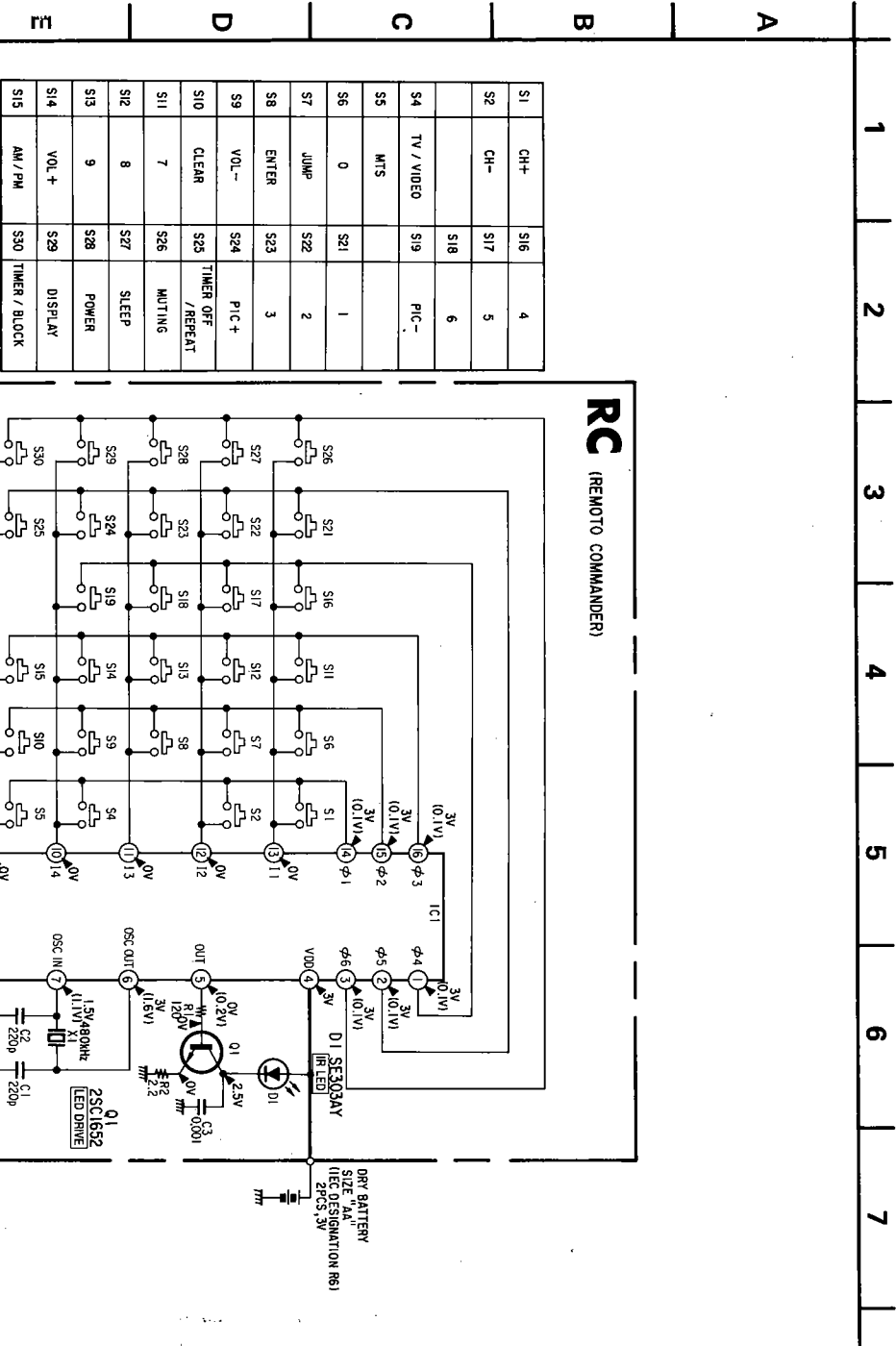
ACCESSORIES AND PACKING MATERIALS  
 \*\*\*\*\*

| <u>Part No.</u> | <u>Description</u>      | <u>Remark</u> |
|-----------------|-------------------------|---------------|
| A-1470-719-A    | COMMANDER ASSY (RM-735) |               |
| Δ 1-417-135-11  | MIXER, U/V              |               |
| 1-501-329-11    | ANTENNA, TELESCOPIC     |               |
| 4-349-950-00    | BAG, POLYETHYLENE       |               |
| 4-377-015-01    | BAG, PROTECTION         |               |
| *4-379-845-01   | CUSHION (UPPER) (ASSY)  |               |
| *4-379-846-01   | CUSHION (LOWER) (ASSY)  |               |
| *4-379-844-01   | INDIVIDUAL CARTON       |               |
| 4-482-191-22    | MANUAL, INSTRUCTION     |               |
| 4-491-213-22    | INSTRUCTION             |               |

The components identified by shading and mark Δ are critical for safety. Replace only with part number specified.

RC

7-1. SCHEMATIC DIAGRAM



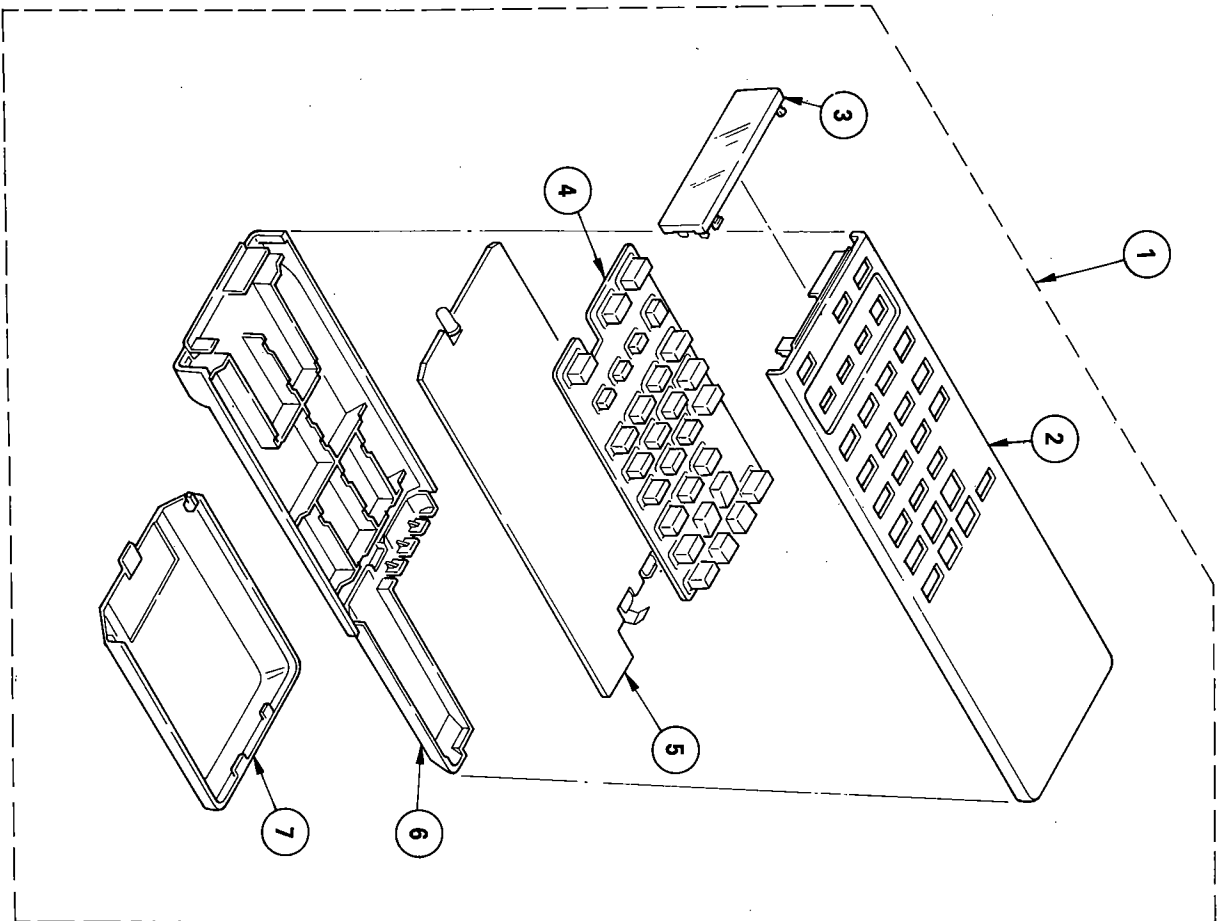
Rc

7-3. EXPLODED VIEW

NOTE:

- Items with no part number and no description are not stocked because they are seldom required for routine service.
- The construction parts of an assembled part are indicated with a collation number in the remark column.

- Items marked " \* " are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.



| No. | Part No.     | Description             | Remark | No. | Part No.      | Description    | Remark |
|-----|--------------|-------------------------|--------|-----|---------------|----------------|--------|
| 1   | A-1470-719-A | COMMANDER ASSY (RM-735) | 2-7    | 5   | *1-616-584-11 | RC BOARD       |        |
| 2   | X-4379-101-1 | CASE ASSY, UPPER        |        | 6   | 4-373-824-11  | CASE, LOWER    |        |
| 3   | 4-373-819-01 | PLATE, FROSTED          |        | 7   | 4-373-821-11  | COVER, BATTERY |        |
| 4   | 4-379-101-01 | SHEET, POLISHING RUBBER |        |     |               |                |        |

7-4. ELECTRICAL PARTS LIST

NOTE:

- Items marked " \* " are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.

When indicating parts by reference number, please include the board name.

CAPACITORS  
• MF :  $\mu$ F, PF : pF  
RESISTORS  
• All resistors are in ohms

| Ref.No. | Part No.      | Description           | Remark  |
|---------|---------------|-----------------------|---------|
|         | *1-616-584-11 | RC BOARD              |         |
|         | *****         |                       |         |
|         | 4-350-924-00  | TERMINAL (B), BATTERY |         |
|         | 4-372-835-01  | TERMINAL (A), BATTERY |         |
|         |               | CAPACITOR             |         |
| C1      | 1-102-110-00  | CERAMIC 220PF         | 10% 50V |
| C2      | 1-102-110-00  | CERAMIC 220PF         | 10% 50V |
|         |               | DIODE                 |         |
| D1      | 8-719-107-82  | DIODE SE303AV         |         |
|         |               | IC                    |         |
| IC1     | 8-759-920-81  | IC CX23041-09         |         |
|         |               | TRANSISTOR            |         |
| Q1      | 8-729-965-22  | TRANSISTOR 2SC1652    |         |
|         |               | RESISTOR              |         |
| R1      | 1-247-809-00  | CARBON 120 5%         | 1/6W    |
| R2      | 1-247-767-00  | CARBON 2.2 5%         | 1/6W    |
|         |               | CRYSTAL               |         |
| X1      | 1-527-476-41  | OSCILLATOR, CERAMIC   |         |

# KV-2093R

## RM-735

### SONY<sup>®</sup> SERVICE MANUAL

*US Model*

*Serial No. 7,029,801 and later*

*Chassis No. SCC-648V-A*

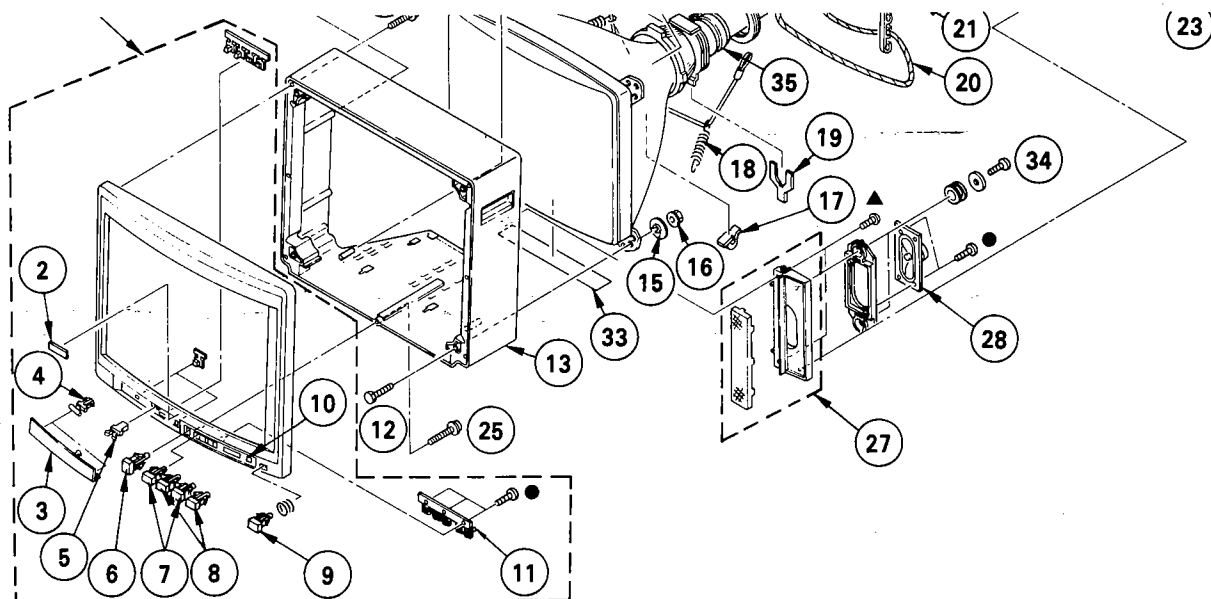
March, 1987

No. 1

## SUPPLEMENT

**SUBJECT: CRT MODIFICATION**

Page 15: EXPLODED VIEWS



| No. | Part No.       | Description             | Remark | No. | Part No.       | Description                    | Remark |
|-----|----------------|-------------------------|--------|-----|----------------|--------------------------------|--------|
| 1   | X-4379-104-1   | BEZEL ASSY              | 2-11   | 20  | Δ.1-426-227-23 | COIL, DEMAGNETIZATION          |        |
| 2   | 4-374-115-01   | EMBLEM, SONY            |        | 21  | *4-374-720-01  | BAND, COIL, DEGAUSS            |        |
| 3   | 4-374-275-21   | DOOR, CONTROL           |        | 22  | *A-1330-667-A  | C BOARD, COMPLETE              |        |
| 4   | 3-662-365-00   | SHAFT (S), DOOR         |        | 23  | 4-379-118-01   | COVER, REAR                    |        |
| 5   | 4-374-714-01   | CATCH, PUSH             |        | 24  | *4-379-105-01  | LABEL, MODEL NUMBER            |        |
| 6   | 4-379-112-01   | BUTTON (D)              |        | 25  | 4-319-520-00   | SCREW, SPECIAL (+PW4X30)       |        |
| 7   | 4-379-111-01   | BUTTON (C)              |        | 26  | *4-369-234-01  | HOLDER, HV CABLE               |        |
| 8   | 4-379-110-01   | BUTTON (B)              |        | 27  | X-4374-220-2   | PANEL ASSY, SP                 |        |
| 9   | X-4379-102-1   | BUTTON (A) ASSY         |        | 28  | 1-503-258-21   | SPEAKER                        |        |
| 10  | 4-379-114-01   | PLATE, TRANSPARENT      |        | 29  | 4-308-870-00   | CLIP, LEAD WIRE                |        |
| 11  | *4-379-113-01  | HINGE (B), BUTTON       |        | 30  | 1-452-032-00   | MAGNET, DISK; 10MM Ø           |        |
| 12  | 3-703-025-12   | BOLT M5, HEXAGON-HEAD   |        | 31  | 1-452-094-00   | MAGNET, ROTATABLE DISK; 15MM Ø |        |
| 13  | 4-379-117-01   | CABINET                 |        | 32  | X-4309-608-0   | PERMALLOY ASSY, CONVERGENCE    |        |
| 14  | Δ.8-738-752-05 | CRT (A51JUH50X)         |        | 33  | 4-370-595-01   | CLOTH, BLOTTER                 |        |
| 15  | 4-373-615-02   | WASHER, CRT POSITIONING |        | 34  | 4-314-843-00   | SCREW, TAPPING, +4X12          |        |
| 16  | 4-306-034-00   | FLANGE NUT, (B) 5MM     |        | 35  | Δ.1-451-268-11 | DEFLECTION YOKE (SY-153C)      |        |
| 17  | 3-703-961-01   | SPACER, DY              |        |     |                |                                |        |
| 18  | *4-375-394-01  | SPRING, TENSION         |        |     |                |                                |        |
| 19  | 1-452-277-00   | MAGNET, BMC             |        |     |                |                                |        |



CTV

KV-7  
RM-7

# ELECTRICAL PARTS LIST

|              |        |      |    |      |
|--------------|--------|------|----|------|
| 47-713-11    | CARBON | 1K   | 5% | 1/4W |
| 49-469-11    | CARBON | 100K | 5% | 1/4W |
| 47-725-11    | CARBON | 10K  | 5% | 1/4W |
| 47-831-00    | CARBON | 1K   | 5% | 1/6W |
| 7-173-00     | CARBON | 56K  | 5% | 1/4W |
| 47-873-00    | CARBON | 56K  | 5% | 1/6W |
| 47-173-00    | CARBON | 56K  | 5% | 1/4W |
| 47-831-00    | CARBON | 1K   | 5% | 1/6W |
| 247-713-11   | CARBON | 1K   | 5% | 1/4W |
| 247-706-11   | CARBON | 330  | 5% | 1/4W |
| 249-421-11   | CARBON | 2.2K | 5% | 1/6W |
| 249-421-11   | CARBON | 2.2K | 5% | 1/6W |
| 247-706-11   | CARBON | 330  | 5% | 1/4W |
| 1-249-469-11 | CARBON | 100K | 5% | 1/4W |
| 1-249-433-11 | CARBON | 22K  | 5% | 1/6W |
| 1-249-433-11 | CARBON | 22K  | 5% | 1/6W |
| 1-247-807-00 | CARBON | 100  | 5% | 1/6W |
| 1-249-433-11 | CARBON | 22K  | 5% | 1/6W |
| 1-249-433-11 | CARBON | 22K  | 5% | 1/6W |
| 1-247-899-00 | CARBON | 680K | 5% | 1/6W |
| 1-247-807-00 | CARBON | 100  | 5% | 1/6W |
| 1-247-899-00 | CARBON | 680K | 5% | 1/6W |
| 1-247-873-00 | CARBON | 56K  | 5% | 1/6W |
| 1-249-429-11 | CARBON | 10K  | 5% | 1/6W |
| 1-247-171-00 | CARBON | 47K  | 5% | 1/4W |
| 1-247-831-00 | CARBON | 1K   | 5% | 1/6W |
| 1-247-879-00 | CARBON | 100K | 5% | 1/6W |
| 1-247-725-11 | CARBON | 10K  | 5% | 1/4W |
| 1-247-713-11 | CARBON | 1K   | 5% | 1/4W |
| 1-247-873-00 | CARBON | 56K  | 5% | 1/6W |
| 1-247-873-00 | CARBON | 56K  | 5% | 1/6W |
| 1-246-511-00 | CARBON | 39K  | 5% | 1/4W |

## THERMISTOR

TH1401 1-800-627-00 THERMISTOR

## CONNECTOR

U1 \*1-560-124-00 PLUG, CONNECTOR (2.5MM) 4P  
U2 \*1-564-441-11 PLUG, CONNECTOR (2.5MM) 5P  
U3 \*1-564-440-11 PLUG, CONNECTOR (2.5MM) 4P  
U4 \*1-564-442-11 PLUG, CONNECTOR (2.5MM) 6P

## MISCELLANEOUS

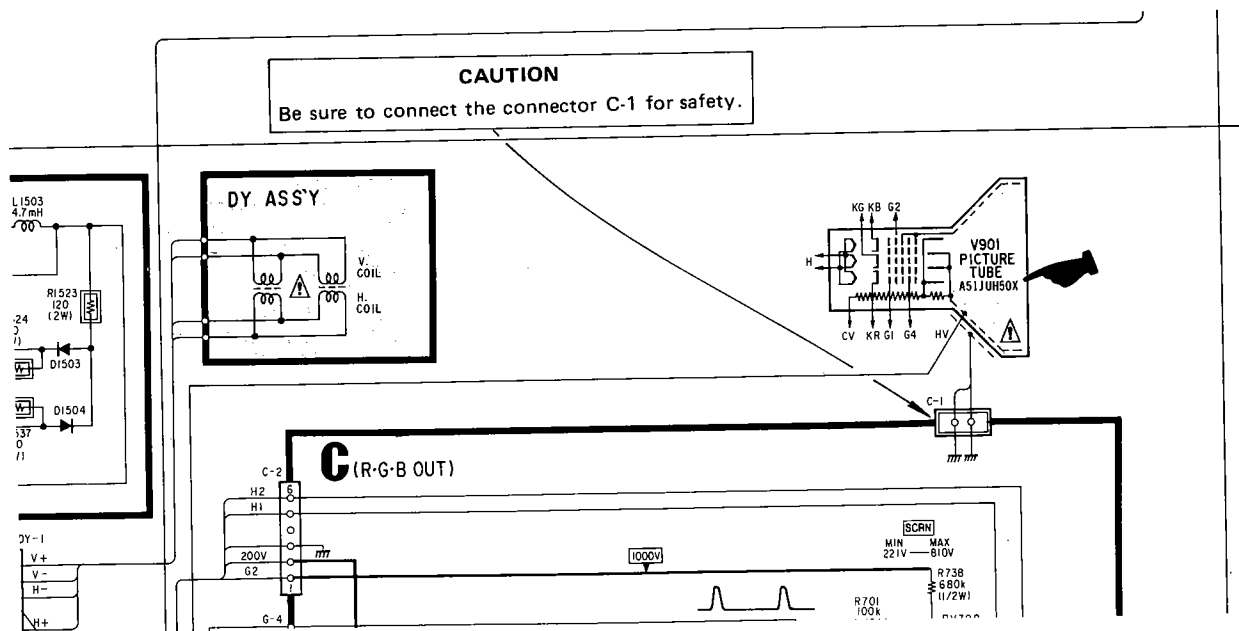
Δ.1-230-786-12 RESISTER ASSY, HIGH-VOLTAGE  
Δ.1-417-121-21 SELECTOR, ANTENNA  
Δ.1-451-268-11 DEFLECTION YOKE (SY-153C)  
1-452-032-00 MAGNET, DISK; 10MM Ø  
1-452-094-00 MAGNET, ROTATABLE DISK; 15MM Ø

1-452-277-00 MAGNET, BMC  
1-536-973-11 TERMINAL BOARD, INPUT/OUTPUT  
Δ.1-557-269-11 CORD, POWER

L901 Δ.1-426-227-23 COIL, DEMAGNETIZATION  
SP901 1-503-258-21 SPEAKER  
SP902 1-503-258-21 SPEAKER  
T1503 Δ.1-439-351-21 TRANSFORMER ASSY, FLYBACK  
TU101 Δ.1-463-603-11 TUNER, ET (BTP-201)

V901 Δ.8-738-752-05 CRT (A51JUH50X)

## SCHEMATIC DIAGRAM



# SONY

# SERVICE MANUAL

*US Model*  
Chassis No. SCC-648V-A

## SUPPLEMENT-2

File this Supplement with the Service Manual.

**SUBJECT: MODIFICATION OF CIRCUIT**

### INTRODUCTION

Memory IC (IC102) on the A board will be replaced.

Consequently, the power supply circuit including zenor diode will be changed and IB block will be changed to new parts.

Contents of main modifications are as follows.

- A board Addition : C192  
Alteration : IC102  
Deletion : C603, C608, D606, R192, R193, R603, R604
- D board Deletion : C1554, C1555, D1520, R1569
- Parts to be replaced.

### SECTION 5 ELECTRICAL PARTS LIST

A board: P24-27, 29

| BOARD | OLD   |                                       | NEW   |                                    |
|-------|-------|---------------------------------------|-------|------------------------------------|
| A     |       | ---                                   | C192  | 1-102-110-21 CERAMIC 220PF 10% 50V |
|       | C603  | 1-161-830-00 CERAMIC 0.0047MF 500V    |       | ---                                |
|       | C608  | 1-123-934-00 ELECT 22MF 20% 160V      |       | ---                                |
|       | D606  | 8-719-924-06 DIODE ERC24-06S          |       | ---                                |
|       | IC102 | 8-759-105-59 IC UPD6251C              | IC102 | 8-752-321-18 IC CXK-1005P          |
|       | R192  | 1-247-133-00 CARBON 1.2K 5% 1/4W      |       | ---                                |
|       | R193  | 1-244-887-51 CARBON 3.9K 5% 1/2W      |       | ---                                |
|       | R603  | 1-216-431-11 METAL OXIDE 560 5% 1W F  |       | ---                                |
|       | R604  | 1-215-896-00 METAL OXIDE 4.7K 5% 2W F |       | ---                                |

D board: P31, 32

|   |       |                                    |  |     |
|---|-------|------------------------------------|--|-----|
| D | C1554 | 1-161-830-00 CERAMIC 0.0047MF 500V |  | --- |
|   | C1555 | 1-123-947-00 ELECT 10MF 20% 250V   |  | --- |
|   | D1520 | 8-719-901-93 DIODE V19E            |  | --- |
|   | R1569 | 1-249-398-51 CARBON 27 5% 1/6W F   |  | --- |

— Continued on next page —

○ : altered portion  
 ◐ : deleted portion

**SCHEMATIC DIAGRAM**  
— A board—

